100 EAST 149TH STREET SITE

100 EAST 149TH STREET

BRONX, NEW YORK

Block 2351, Lot 35

Remedial Investigation Report

NYSDEC BCP Project Number C203159
NYSDEC Spill Number 18-10498

Prepared for:

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REMEDIAL INVESTIGATION REPORT

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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
UST	Underground Storage Tank
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, George Cambourakis (license number 060234), certify that I am currently a NYS registered Professional Engineer and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER approved modifications. I, George Cambourakis (license number 060234), certify that my contract agreement was made directly with the remedial party, RGDC 149 LLC (the Volunteer).

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

George J. Cambourakis 09/08/25

NYS Professional Engineer #060234 Date Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

1.0 INTRODUCTION

This Remedial Investigation Report (RIR) was prepared by Structural Engineering Technologies, PC (S.E.T., PC) on behalf of RGDC 149 LLC (the Volunteer) for the property located at 100 East 149th Street, the Bronx, New York (the Site). The Remedial Investigation (RI) described in this document is consistent with the New York State Department of Environmental Conservation (NYSDEC) approved Remedial Investigation Work Plan (RIWP). Overall responsibility for the BCP Project will be George J. Cambourakis, PE, of S.E.T., PC.

The RI work was performed by Touchstone Environmental Geology, PC (Touchstone) personnel under the direct supervision of S.E.T., PC between November 6, 2023 and July 11, 2024, and was conducted in accordance with: Title 6 of the New York Codes, Rules and Regulations (6 NYCRR) Part 375-1, 3.8, and 6.8; NYSDEC Division of Environmental Remediation (DER) Program Policy: Technical Guidance for Site Investigation and Remediation (DER-10); and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, with updates. The PE and QEP were each contracted separately by the Volunteer.

The objectives and goals of this RIR are to:

- Define the nature and extent of contamination in all media at or emanating from the Site;
- Generate sufficient data to evaluate remedial action alternatives and prepare a Remedial Action Work Plan (RAWP) to be implemented;
- Generate sufficient data to evaluate actual and potential threats to human health and the environment.

RGDC 149 LLC executed a Brownfield Cleanup Agreement (BCA, Index No. C203159-01-23) with the NYSDEC to investigate the Site on September 7, 2023. This RIR summarizes the nature and extent of contamination and provides sufficient information for the establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the Site pursuant to the BCP Law and applicable Rules and Regulations in 6 NYCRR Parts 375-1, 3.8, and 6.8.

The Site currently contains a vacant lot formerly used as a gasoline station.

1.1 Site Location and Current Usage

The street address for the Site is 100 East 149th Street, the Bronx, New York. The Site is located in the Mott Haven neighborhood of the Bronx, New York which consists primarily of multi-family walk-up buildings and mixed-use residential and commercial buildings. The Site is known as the 100 East 149th Street Site and is identified as Block 2351, Lot 35 on the New York City Tax Map. **Figure 1** shows the Site location. The Site is 4,105-square feet (0.09-acres) and consists of approximately 104-feet of frontage along River Avenue to the south/southwest and approximately 47-feet of frontage along East 149th Street to the north. A map of the Site boundary is shown in **Figure 2**. Currently, the Site contains a vacant lot formerly used as a gasoline station.

A 500-foot radius search for schools, hospitals, day care facilities, and churches identified the KIPP Bronx Charter School II (501 Gerard Avenue) is located to the east of the Site. **Figure 3** shows the surrounding land usage.

1.2 Summary of Proposed Redevelopment Plan

The Site is expected to be developed with an asphalt-covered parking lot.

1.3 Summary of Past Uses of the Site and Areas of Concern

According to the New York City Department of Finance, Office of the City Register, Automated City Register Information System (ACRIS), the Site is currently owned by 100 E 149, LLC (the Volunteer).

The environmental history of the Site was identified through the review of prior investigation reports, Federal and State Environmental Databases, and Environmental Sanborn Fire Insurance Maps. According to prior reports, the Site was historically developed with a gasoline station in circa 1935. Sanborn Maps indicate a gasoline station was present at the Site from at least 1935 through 1989 and a review of historic City Directories indicates service station occupants were listed from at least 1956 through 1976. Furthermore, the 1935, 1944, and 1946 Sanborn Maps depict five 550-gallon buried underground storage tanks (USTs) at the Site. Most recently, a tire company (149 Tire Center Corp), occupied the Site in 2017. A demolition permit for the structure was filed with the NYC DOB in 2019. The Site currently contains vacant land.

1.4 Summary of Environmental Findings

The contaminants of concern identified during the RI include petroleum related VOCs in the soil and groundwater, SVOCs and metals within urban fill material, and petroleum related and chlorinated VOCs in the soil vapor. Additional details regarding the environmental findings are presented in Sections 4.0 and 5.0 of this report.

Subsurface Investigation Results

The NYSDEC project manager was notified of the soil probe and monitoring well refusals encountered at the Site on November 13, 2023. Touchstone submitted a Site Investigation Letter to NYSDEC on November 15, 2023 as well as updated Site Investigation Letters per NYSDEC requests on November 17, 2023, and November 21, 2023. The Site Investigation proposed the performance of ground intrusive activity to investigate the cause of refusal in the southern portion of the Site which additionally coordinated with an anomaly identified during a Ground Penetrating Radar (GPR) survey performed during Touchstone's August 2020 Subsurface Investigation. The Site Investigation proposed the excavation of three 5' x 5' x 5' test pits in the southern-central portion of the Site. The NYSDEC Project Manager responded via email on November 22, 2023 indicating that the request to complete three test pits at the 100 E 149th Street Site (C203159) was approved according to the provided scope of work and RIWP. Touchstone performed the Site Investigation on December 1, 2023.

Metal sheeting was identified during the investigation and the area was further excavated. The excavation of the metal sheeting revealed the presence of a double auto service pit (42' x 16' x 5') used for automotive maintenance. At the bottom of one of the service pits, a 3' x 3' x 4' drain pit was discovered. The drain pit contained sludgy, wet petroleum with noticeable petroleum odor and a soil PID reading of 39.3 was recorded. Additionally, a small amount of soil with a petroleum odor was identified in the southwest corner of the service pit. **Figure 2** provides a map indicating the locations of the auto service pit and drain pit. The petroleum impacted soil was separately stored on plastic sheeting at the Site and then was placed into two (2) 55-gallon drums for disposal. The drums were removed from the Site on January 12, 2024 and were disposed of at the Republic Environmental Systems, LLC facility in Hatfield, Pennsylvania. The waste disposal manifests and analytical data for all drums removed from the Site are provided in **Appendix C**.

The auto service pit and drain pit bottoms were observed to be concrete. Brick walls formed the perimeter of the drain pit. The anomaly area was identified as the reinforced concrete footing and steel post of a former commercial billboard which were left in the ground. During the investigation, an old hydraulic tank was identified. The hydraulic oil tank was disconnected, dry, and no product was identified. The tank was separated and wrapped in plastic and stored on-Site for future disposal.

The excavation was backfilled, and the ground was leveled following the completion of the investigation. The NYSDEC Project Manager requested that the newly discovered oily pit be added to the existing spill case at the Site (NYSDEC Spill Number 18-10498). During the excavation, some fill sand from the base of soil vapor probe 22SV3 was exposed. Soil vapor probe 22SV3 may need to be reinstalled.

Soil Probe Results

A total of 10 soil borings (designated 23SP1 through 23SP10) were installed during the RI. Seven soil borings (23SP1 through 23SP7) were installed within the Site Boundary. Three soil borings were installed off-Site as follows: two soil borings (23SP8 and 23SP9) were installed in the sidewalk to the west of the Site along River Avenue and one soil boring (23SP10) was installed to the north of the Site along East 149th Street. The soil borings were installed to approximately 30-feet below grade in all locations.

A total of 40 soil samples (four samples per soil boring) were collected for chemical analysis to evaluate soil quality at the Site. The soil samples collected during the RI were analyzed for the following:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d)13 of DER-10.
- Pesticides via EPA Method 8081
- PCBs via EPA Method 8082

- 21 PFAS Compounds via EPA Method 1633
- 1,4-dioxane via EPA Method 8270 SIM.

Saturated conditions were identified during monitoring well installations at approximately 10 to 17 feet below grade. The saturated soil extends to at least 25 to 30 feet below grade where the monitoring well installation borings were terminated. Organic vapor readings were not conducted on the saturated soil as the moisture in the soil would harm the PID meter. Gray and black staining was identified within the saturated soil at approximately 14 to 16 feet below grade and 22.5 to 25 feet below grade in soil boring 23SP3, at and above the water table interface at the from 8 to 14 feet below grade and within the saturated soil at 20 to 22.5 feet below grade in soil boring 23SP4, in the shallow soil in soil boring 23SP5 (2.5-5'), within the saturated soil at 12.5 to 17.5 feet below grade and 25 to 27.5 feet below grade in soil boring 23SP6, and above and at the water table interface from 12 to 25 feet below grade in soil boring 23SP7, at the within the saturated soil at 12.5 to 15 feet below grade in soil boring 23SP8, at and above the water table interface at the from 10 to 15 feet below grade and within the saturated soil at 15 to 20 feet below grade in soil boring 23SP9, and within the saturated soil at 15 to 25 feet below grade in soil boring 23SP10. Petroleum odors were detected in the soil collected from 23SP1 (12.5-15'), 23SP3 (14-16', 16-18', 18-20', 20-22.5' and 22.5-25'), 23SP4 (8-10', 10-12', 12-14', 14-16',16-18', 18-20', and 25-27.5'), 23SP5 (12.5-15', 15-17.5', and 17.5-20'), 23SP6 (12.5-15'), 23SP7 (12-14', 14-16', 16-18', 18-20', and 22.5-25'), 23SP8 (15-17.5' and 17.5-20'), and 23SP9 (7.5-10', 10-12.5', and 12.5-15').

The VOC Acetone was detected in soil samples collected from 10 to 17.5-feet below grade in several sampling locations at concentrations exceeding its Unrestricted Use Soil Cleanup Objective (UUSCO). Acetone is a common laboratory contaminant and is not considered to represent contamination on-Site.

The petroleum related compounds 1,2,4-Trimethylbenzene (max of 420 mg/kg in 23SP1 (12.5-15 ft)), 1,3,5-Trimethylbenzene (max of 120 mg/kg in 23SP1 (12.5-15 ft)), Benzene (max of 2.60 mg/kg in 23SP6 (15-17.5 ft)), Ethyl Benzene (max of 98 mg/kg in 23SP1 (12.5-15 ft)), n-Butyl benzene (22 mg/kg in 23SP1 (12.5-15 ft) and 23SP5 (12.5-15 ft)), n-Propyl benzene (max of 53 mg/kg in 23SP1 (12.5-15 ft)), Toluene (max of 10 mg/kg in 23SP1 (12.5-15 ft)), and Xylenes, Total (max of 200 mg/kg in 23SP1 (12.5-15 ft)) were detected in multiple saturated soil

samples at depths ranging from 12.5 to 20 feet below grade at concentrations exceeding their respective UUSCOs, Protection of Groundwater SCOs (PGSCOs), or Restricted Residential Use SCOs (RRSCOs). As discussed below, elevated concentrations of petroleum related VOCs were identified at concentrations exceeding their respective NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1 Ambient Water Quality Standards (AWQS) in the groundwater samples collected from all monitoring wells with the exception of 23MW8. Monitoring wells were installed within their corresponding soil boring location (e.g., 23MW1 was installed in the same location as 23SP1). Based upon the presence of petroleum related compounds in the saturated soils, it is likely that this petroleum impacted soil is related to the presence of petroleum related VOCs in the groundwater.

The results of the sampling performed during this RI identified levels of historic fill material consisting of brick, concrete, asphalt, coal ash, brown, dark brown, black, and gray fine to medium grained sand and clay across the Site from grade to approximately 16 to 17-feet below grade. In some locations, the fill material extended to 22.5 feet below grade. Depending on the location, the historic fill materials contain one or more metals (including arsenic, chromium hexavalent, chromium trivalent, copper, lead, nickel, selenium, silver, and mercury), the pesticide 4,4'-DDT, and polycyclic aromatic hydrocarbons (PAHs) were detected at concentrations exceeding their respective UUSCOs. The PFAS compound Perfluorooctanesulfonic acid (PFOS) was detected at a concentration exceeding its UUSCO in the shallow soil (0-2.5 feet) and was detected at concentrations exceeding its UUSCO and PGSCO in the shallow (0-2.5 feet) to moderately deep (8-12 feet) soils in the western portion of the Site. The pesticide 4,4'-DDT was detected at a concentration exceeding its UUSCO in one shallow sample (23SP3 (0-2.5 ft): 0.00494 mg/kg). Additionally, elevated levels of PAHs (including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) were identified in soil samples ranging from 0 to 5 feet to 12 to 22 feet below grade, and the metals arsenic, barium, lead, and mercury were identified in shallow (0 to 2.5 feet) and moderately deep to deep soils (8 to 22 feet) at concentrations exceeding their respective Restricted Residential Use SCOs (RRSCOs).

Additional information regarding soil probe installation and soil boring collection is presented in Sections 4.2 and 4.2.1 of this RIR, respectively. Additional details about the environmental findings are presented in Section 5.2 – Soil Chemistry.

Groundwater Monitoring Well Results

A total of 10 monitoring wells (designated 23MW1 through 23MW10) were installed during the RI to determine the direction and gradient for groundwater flow at the Site and to further evaluate groundwater quality. The monitoring wells were installed within their corresponding soil boring locations (e.g., 23MW1 was installed within the location of 23SP1). Monitoring wells 23MW1 through 23MW7 were installed within the Site boundary and monitoring wells 23MW8 through 23MW10 were installed off-Site. Monitoring wells 23MW8 and 23MW9 were installed in the sidewalk to the west of the Site along River Avenue within the locations of 23SP8 and 23SP9, respectively and one monitoring well (23MW10) was installed to the north of the Site near the along East 149th Street in the location of 23SP10. A total of ten groundwater samples were collected for chemical analysis to evaluate groundwater quality. All groundwater samples were analyzed as follows:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10;
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d) 13 of DER-10 – filtered and unfiltered;
- Pesticides via EPA Method 8081;
- PCBs via EPA Method 8082;
- 21 PFAS Compounds via EPA Method 1633;
- 1,4-dioxane via EPA Method 8270 SIM.

Additional information regarding well construction, well development, sampling protocols, and analytical methods for contaminants detected in groundwater samples are presented in Section 4.3 of this report.

The results of the groundwater sampling indicate the depth to groundwater beneath the Site ranges from 11.48-feet in 23MW8 to 13.91-feet in 23MW5 and that groundwater at the Site flows towards the northwest. No chlorinated VOCs (CVOCs) were detected in any monitoring wells at concentrations exceeding their respective NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1 Ambient Water Quality Standards (AWQS). Levels of petroleum-related VOCs including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethyl benzene, isopropyl benzene, n-butyl benzene, n-propyl benzene, o-xylene, p-isopropyl toluene, sec-butyl benzene, toluene, and/or xylenes, total were detected in monitoring wells 23MW1 through 23MW7, 23MW9, and 23MW10 at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS. No VOCs were detected at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS in monitoring well 23MW8. The SVOCs benzo(a)anthracene (23MW10), bis(2-ethylhexyl)phthalate (23MW4), chrysene (23MW10), and naphthalene (23MW2 and 23MW5) were detected at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS.

Levels of dissolved and undissolved metals including magnesium, manganese, and sodium were detected in all monitoring wells at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS. Additionally, the undissolved metals lead (in 23MW1 through 23MW4 and 23MW7), arsenic (23MW9), and Mercury (23MW1, 23MW2, and 23MW7) and cyanide Total (23MW2 through 23MW4 and 23MW8 through 23MW10) were detected at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS. The PFAS compound Perfluorooctanesulfonic acid (PFOS, max of 31.70 ng/L in 23MW1) was detected at concentrations exceeding its NYSDEC PFAS Remedial Program April 2023 Standard in groundwater samples 23MW1, 23MW2, 23MW3, 23MW4, 23MW5, 23MW7, 23MW8, 23MW9, and 23MW10. Additionally, the PFAS compound Perfluorooctanoic acid (PFOA, max of 22.40 ng/L in 23MW7) was detected at concentrations exceeding its NYSDEC PFAS Remedial Program April 2023 Standard in groundwater samples 23MW2, 23MW3, 23MW4, 23MW5, 23MW6, 23MW7, 23MW8, and 23MW10.

The groundwater beneath the Site appears to be impacted with petroleum related VOCs throughout the Site (23MW1 through 23MW7) and in the locations upgradient (23MW9) and cross-gradient (23MW10) of the Site including 1,2,4-trimethylbenzene (max of 880 ug/L in

23MW2), 1,3,5-trimethylbenzene (max of 260 ug/L in 23MW2), benzene (max of 760 ug/L in 23MW2), ethyl benzene (max of 1,200 ug/L in 23MW2), isopropyl benzene (max of 86 ug/L in 23MW2), n-butylbenzene (max of 46 ug/L in 23MW2), n-propyl benzene (max of 230 ug/L in 23MW2), o-xylene (max of 230 ug/L in 23MW2), p-isopropyl toluene (7.80 ug/L in 23MW5), sec-butylbenzene (max of 16 ug/L in 23MW2), toluene (max of 150 ug/L in 23MW2), and xylenes, total (380 ug/L in 23MW2). The groundwater beneath the Site additionally appears to be impacted by PFAS compounds throughout the Site and off-Site as the compound PFBA (max of 1,300 ng/L in 23MW4) was detected in three monitoring wells (23MW4, 23MW6, and 23MW10), the compound PFOS (max of 31.70 ng/L in 23MW1) was detected in seven monitoring wells (23MW1, 23MW2, 22MW3, 23MW5, 23MW8, 23MW9, and 23MW10) and the compound PFOA (max of 22.40 ng/L in 23MW7) was detected in five monitoring wells (23MW2, 23MW3, 22MW6, 23MW7, and 23MW8). Additional details about the environmental findings are presented in Section 5.3 – Groundwater Chemistry.

Soil Vapor Probe and Ambient Air Results

A total of six soil vapor implants (23SV1 through 23SV6) were installed during the RI. Soil vapor implants 23SV1, 23SV2, 23SV3, 23SV5, and 23SV6 were installed at a depth of approximately 5-feet below grade and soil vapor implants 23SV3 and 23SV4 were installed to approximately 8 feet below grade. Soil vapor probes 23SV1, 23SV2, 23SV3, 23SV5, and 23SV6 were finished with manhole covers. A total of six soil vapor samples (23SV1 through 23SV6) and one outdoor air sample (OA-1) were collected for chemical analysis during this RI. Soil vapor and ambient air samples were analyzed for VOCs via EPA Method TO-15.

The results of the soil vapor survey indicate low levels of the NYSDOH guidance compounds were detected in the soil vapor both on and off-Site. The compound carbon tetrachloride was detected at low concentrations in the northeastern (23SV1: 0.37 ug/m3), eastern (23SV3: 0.47 ug/m3), and southwestern (23SV4: 0.36 ug/m3) portions of the Site and in the outdoor air sample (OA-1: 0.24 ug/m3). The compound tetrachloroethylene (PCE) was detected at low concentrations in the western (23SV2: 1 ug/m3) and southwestern (23SV4: 1.80 ug/m3) portions of the Site and to the north (23SV5: 2 ug/m3), and west (23SV6: 17 ug/m3) of the Site. The compound trichloroethylene (TCE) was detected at a low concentration to the north of the Site (23SV5: 0.49 ug/m3). The NYSDOH guidance petroleum compounds 1,2,4-

trimethylbenzene (max of 51 ug/m3 in 23SV5), 1,3,5-trimethylbenzene (max of 40 ug/m3 in 23SV6), benzene (max of 6 ug/m3 in 23SV5), cyclohexane (max of 92 ug/m3 in 23SV6), ethyl benzene (max of 54 ug/m3 in 23SV6), o-xylene (max of 21 ug/m3 in 23SV6), p- & m-xylenes (max of 52 ug/m3 in 23SV6), and toluene (max of 18 ug/m3 in 23SV5) were detected within the soil vapor samples. Additionally, the petroleum compounds benzene (0.39 ug/m3), p- & m-xylenes (0.74 ug/m3), and toluene (0.55 ug/m3) were detected in the outdoor air sample (OA-1). Low levels of BTEX (benzene, toluene, ethylbenzene, and xylenes) were detected in the soil vapor across the Site and off-Site. The greatest concentration of BTEX was 143 ug/m3 in 23SV6 located in the sidewalk to the west of the Site along River Avenue. Additional details about the environmental findings are presented in Section 5.4 – Soil Vapor Chemistry.

2.0 SITE HISTORY

2.1 Site History

According to the New York City Department of Finance, Office of the City Register, Automated City Register Information System (ACRIS), the Site is currently owned by 100 E 149, LLC (the Volunteer).

The environmental history of the Site was identified through the review of prior investigation reports, Federal and State Environmental Databases, and Environmental Sanborn Fire Insurance Maps. According to prior reports, the Site was historically developed with a gasoline station in circa 1935. Sanborn Maps indicate a gasoline station was present at the Site from at least 1935 through 1989 and a review of historic City Directories indicates service station occupants were listed from at least 1956 through 1976. Furthermore, the 1935, 1944, and 1946 Sanborn Maps depict five 550-gallon buried underground storage tanks (USTs) at the Site. Most recently, a tire company (149 Tire Center Corp), occupied the Site in 2017. A demolition permit for the structure was filed with the NYC DOB in 2019. The Site currently contains vacant land.

2.2 Previous Investigations

The Remedial Investigation Work Plan (RIWP) revealed the following information regarding previous investigations at the Site:

- *Phase I Environmental Site Assessment (ESA) and a Focused Subsurface Site Investigation (MECC, May 2017)*
- *Remedial Investigation Report (EES, July 2019)*
- *Phase II Environmental Site Assessment (Touchstone, October 2020)*
- *Phase I Environmental Site Assessment (Touchstone, April 2022)*

Focused Subsurface Site Investigation (Merritt Environmental Consulting Corp, May 2017)

Touchstone has not been provided with a copy of the Phase I Environmental Site Assessment or Focused Subsurface Site Investigation prepared by Merritt Environmental Consulting, Corp. (MECC). However, these reports are referred to in the Remedial Investigation Report (RIR) prepared by Eastern Environmental Solutions (EES), dated July 2019. According to the EES

RIR, MECC conducted the FSSI based upon the Phase I ESA for the Site. The MECC investigation included the installation of four soil borings (identified as B-1 through B-4) in the northwest portion of the Site. MECC measurements indicated that the water table was encountered at a depth of 14 feet below grade. MECC additionally reported that the subsurface consists of fill material to a depth of at least 20 feet and bedrock was not encountered during the investigation. The Site elevation was reported to be approximately 20 feet above mean sea level and generally level.

Borings B-1 through B-3 (at the northwest portion of the Site) encountered refusal at depths ranging from 7 to 11 feet and boring B-4 (near the center of the Site) was advanced to 20 feet below grade. Vadose zone soil samples were obtained from borings B-1, B-2, and B-4. The results of the investigation in B-2 at 7 feet and B-4 at 12 feet, minor concentrations of petroleum-related VOCs were detected. VOCs were not detected at B-1 at 11 feet. At Boring B-4, a temporary groundwater monitoring well was installed and sampled. The results indicated several petroleum VOCs were detected at concentrations above the NYSDEC Class GA groundwater standards [including a total BTEX concentration of 4,860 micrograms per liter (ug/l)]. No chlorinated VOCs were detected in the soil or groundwater. Free floating product was not identified.

Remedial Investigation Report (Eastern Environmental Solutions, July 2019)

Eastern Environmental Solutions (EES) prepared a Remedial Investigation Report (RIR) for the property located at 100 East 149th Street. At the time of the assessment, the Site consisted of one irregular-shaped parcel with an estimated area of 4,105-square feet (0.094-acres). The Site contained one 200-square foot vacant building with no basement. EES reported that the Site was identified as an E Designation Site under E Designation number E-227 with an effective date of June 30, 2009. No remediation date was listed. The E Designation at the Site is related to Air Quality –#2 Fuel or #4 Fuel Oil or Natural Gas for HVAC Systems, Exhaust Stack Location Limitation, and Hazardous Materials* Phase I and Phase II Testing Protocol. The Remedial Investigation (RI) fieldwork consisted of a Site inspection to identify Site conditions, Site layout, potential areas of concern, and the locations of buildings or other physical structures; the performance of a geophysical investigation to determine the locations of subsurface structures and utilities; the installation of 15 soil borings throughout the Site; the collection of four

subsurface soil vapor samples; and the installation of four monitoring wells and the collection and analysis of four groundwater samples. The soil samples collected from 10 to 15-feet below grade from soil boring locations SB-1, SB-5, SB-8, and SB-11 were analyzed for volatile organic compounds (VOCs) via EPA Method 8260C and soil samples collected from 0 to 2-feet and 10-feet below grade from soil boring locations SB-2, SB-3, and SB-4 were analyzed for VOCs via EPA Method 8260C, semi volatile organic compounds (SVOCs) via EPA Method 8270D, pesticides via EPA Method 8081B, metals via EPA Method 6010C, and PCBs via EPA Method 8082A. Samples from soil boring locations SB-6, SB-7, SB-9, SB-10, SB-12, SB-13, SB-14, and SB-15 were not collected or analyzed during the July 2019 Remedial Investigation. The groundwater samples were analyzed for VOCs via EPA Method 8260C, SVOCs via EPA Method 8270D, PCBs via EPA Method 8082A, metals via EPA Method 6010C, pesticides via EPA Method 8081B, and emerging contaminants (1,4-dioxane and per-and polyfluoroalkyl substances (PFAS)). Soil vapor samples were analyzed for VOCs via EPA Method TO-15.

The results of the RI indicated a geophysical anomaly was identified at the south-central portion of the Site which appeared to be an area of underground storage tanks (USTs). Additionally, the results of the soil samples collected in January 2019 (SB-1, SB-5, SB-8, and SB-11, collected from the southern and central portions of the Site) indicated that petroleum-related VOCs were present at all four locations at concentrations above the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives (SCOs). Furthermore, the results of the samples obtained in March 2019 (SB-1, SB-2, SB-3, and SB-4 from 0 to 2-feet and 10-feet below grade) indicated that petroleum related compounds were detected in the 10-foot sample from SB-2 collected from the southern portion of the Site at concentrations above the Unrestricted SCOs, SVOC exceedances above the Unrestricted SCOs were identified in SB-1 (0-2’), SB-2 (10’), and SB-3 (0-2’ and 10’), and a minor exceedance of 4,4-DDD was detected in SB-2 (0-2’). Soil boring locations SB-1, SB-2, SB-3 were collected from the southern portion of the Site. Additionally, the results of the groundwater samples indicated that petroleum-related VOCs and SVOCs and various metals were detected in all of the monitoring wells located throughout the Site at concentrations exceeding the New York State Department of Environmental Conservation (NYSDEC) Class GA Groundwater Standards. EES additionally noted that “generally low concentrations” of several PFAS compounds were identified in monitoring well MW-3 located in the western-central portion of the Site (MW3-Sample: PFOA: 19 ug/L; MW3-Duplicate: PFOA:

19 ug/L), PFOS: 8.2 ug/L). The results of the soil vapor analysis indicated that the vadose zone soil vapor at the Site contains petroleum and non-petroleum-related VOCs at concentrations ranging from 1.40 ug/m3 (cis-1,2-Dichloroethylene) to 370 ug/m3 (chloroform). EES reported that there were no standards or guidance values for the VOCs in soil vapor and that the petroleum VOCs were likely to be attributable to the petroleum releases at the Site however, EES noted that there may be an off-Site contribution to the contamination at the Site.

EES reported that the results of the investigation indicated the underground storage tanks (USTs) were likely to be the primary source of contamination at the site and that vadose zone soil contamination appeared to be present throughout most or all of the site and was primarily present in the area just above the water table. EES additionally noted that no soil borings at the Site were preformed to a depth greater than 20 feet below grade.

NYSDEC Spill Number 18-10498 was assigned to the release on January 15, 2019 in connection with the presence of petroleum impacted soil at the site.

Phase II Environmental Site Assessment (Touchstone Environmental Geology, PC, October 30, 2020)

Touchstone Environmental Geology, PC (Touchstone) conducted a Phase II Environmental Site Assessment (ESA) at the property identified as 100 East 149th Street in Bronx, New York in October 2020. The fieldwork performed during the Touchstone October 202 Phase II ESA was performed in accordance with NYSDEC requirements to investigate NYSDEC Spill number 18-10498.

The Phase II ESA fieldwork consisted of the performance of a Ground Penetrating Radar (GPR) survey using a GSSI SIR-3000 fitted with a 400 MHz antenna, the installation of four (4) soil probes to 10-feet below grade or until refusal was encountered, and the analysis of eight (6) soil samples for volatile organic compounds (VOCs) via EPA Method 8260 and semi-volatile organic compounds (SVOCs) via EPA Method 8270 (base neutrals) and the installation of four monitoring wells. The four newly installed monitoring wells and one existing monitoring well located on the sidewalk to the west of the Site were sampled. The five groundwater samples were analyzed for VOCs via EPA Method 8260 and SVOCs via EPA Method 8270 (base neutrals).

The results of the Phase II ESA indicated an anomaly was identified in the western-central portion of the Site, as evidenced by the results of the GPR survey. Additionally, it was determined that the historical use of the Site as a gasoline station appears to have impacted upon the environmental quality of the Site as evidenced by the analytical results of soil probes SP-2 (12.5 to 15 feet), SP-3 (10 to 12.5-feet), and SP-4 (5 to 7.5 feet) and groundwater samples from MW-1 through MW-5. The soil analytical results of the Phase II ESA further indicated that levels of gasoline compounds and petroleum impacts were identified in the shallow soils and within the vadose zone in the central and northern portions of the Site as well as in the soil within the vadose zone in the central portion of the Site at concentrations greater than their respective Unrestricted Use Soil Cleanup Objectives (UUSCO). Additionally, the groundwater analytical results indicated levels of gasoline compounds were detected at concentrations exceeding the GQS indicating the groundwater beneath the Site appears to have been impacted and extends to the sidewalk to the west (upgradient of the Site). The greatest concentration of BTEX (benzene, ethyl benzene, toluene, and xylenes) compounds was identified in the central portion of the Site with lower concentrations of total VOCs and BTEX compounds detected in the sidewalk upgradient of the Site and in the northern and southern portions of the Site.

Touchstone noted the soil probes were installed to a depth of 10 feet below grade as groundwater was encountered at this depth.

Elevated levels of several polyaromatic hydrocarbons (PAHs) including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a, h)anthracene, and indeno(1,2,3-cd)pyrene were detected in in the soil as evidenced by the analytical results of SP-1 (2.5 to 5 feet and 7.5 to 10 feet), SP-2 (12.5 to 15 feet), SP-3 (7.5 to 10 feet), and SP-4 (5 to 7.5 feet and 10 to 12.5 feet). The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a, h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations greater than their respective UUSCO and Restricted Residential Use Soil Cleanup Objectives (RRSCO). The presence of these compounds in the soil was considered to be representative of typical urban fill materials.

Phase I Environmental Site Assessment (Touchstone Environmental Geology, P.C. April 21, 2022)

Touchstone Environmental Geology, P.C. conducted a Phase I Environmental Site Assessment (ESA) at the property identified as 100 East 149th Street. The Phase I ESA was performed in accordance with the scope and limitations of ASTM Standard E 1527-13. At the time of the assessment, the Site consisted of one irregular-shaped parcel with an estimated area of 0.094 acres. The Site contained a vacant lot and was historically used in connection with the operation of a gasoline station at the Site. Touchstone reported that the Site was identified in the E-designation database under E-designation number E-227 with an effective date of June 30, 2009. The E-designation is related to the Air Quality - #2 Fuel Oil or # 4 Fuel Oil or Natural Gas for HVAC systems, Exhaust Stack Location Limitation, and Hazardous Materials* Phase I and Phase II Testing Protocol. A satisfaction/remediation date for the E-Designation listing was not identified.

Touchstone reported that the Site appeared to have operated as a gasoline station from at least 1935 through 1989 and is associated with open NYSDEC Spill Number 18-10498. Touchstone additionally noted that Sanborn maps for the Site dated 1935, 1944, and 1946 depicted the presence of five 550-gallon underground storage tanks (USTs) at the Site and former uses of the Site have included the operation of an automotive service station, auto sales, a junk and salvage yard, auto wrecking public parking and an auto and truck parts dealer in 1971 according to a review of the New York City Department of Buildings records.

Touchstone identified the following Recognized Environmental Conditions:

- The listing of the Subject Property with open NYSDEC Spill Number 18-10498 including the NYSDEC's requirement for site remediation, the presence of petroleum compounds in the groundwater at concentrations exceeding the state groundwater standards and the historic use of the site as a gasoline station and suspect auto repair facility from 1935 to 1989 is considered to represent a Recognized Environmental Condition (REC) and a Potential Vapor Encroachment Condition (PVEC).
- The Subject Property is identified in the E-designation database under E-designation number E-227 with an effective date of June 30, 2009. The E-designation is related to the Air Quality - #2 Fuel Oil or # 4 Fuel Oil or Natural Gas for HVAC systems, Exhaust Stack Location Limitation, and Hazardous Materials* Phase I and Phase II Testing Protocol. A satisfaction/remediation date is not listed. The listing of the Subject Property

in the E Designation database is considered to represent a Recognized Environmental Condition (REC).

Touchstone recommended the remediation of NYSDEC Spill Number 18-10498 in accordance with NYSDEC requirements. Touchstone further recommended that any future development of the Subject Property should be done in accordance with the New York City Office of Environmental Remediation (NYC OER) E Designation requirements.

Appendix A provides the RIWP by Touchstone which includes the prior reports.

3.0 PROJECT MANAGEMENT

3.1 Project Organization

Project Role	Name	Contact Information
Qualified Environmental Profession (QEP) responsible for preparation of this RI and certification of this RIR.	Rachel Ataman, PG, Touchstone Environmental Geology, PC (Touchstone – QEP)	(631) 315 – 2734 rachelataman@touchstoneenvironmental.com
George J. Cambourakis, P.E., Structural Engineering Technologies, P.C., responsible for preparation of this RI and certification of this RIR.	Engineer of Record	718.706.7196 Ext. 101 gjc@set-ny.com
Quality Assurance Officer	Gabrielle Castro, Touchstone Environmental Geology, PC	631-315-2735 gabriellecastro@touchstoneenvironmental.com
Field Staff performed under the direct oversight of the QEP.	Mehmet Ataman, Touchstone Environmental Geology, PC	(631) 220-9208 rfataman@touchstoneenvironmental.com
Analytical Laboratory	York Analytical Laboratories, Inc., Stratford, CT	800-306-9675 KKarcich@yorklab.com
DUSR	Michael Perry of Environmental Data Usability	585-991-9156 michaelkperry55@gmail.com
Project Manager for Drilling Company	Carlos Quiñonez, PG Environmental Services, Inc.	631-637-6352 carlos@pgenviro.com
Monitoring Well Survey	AAA Group Land Surveying Services	718.387.9800 Leahl@aaagrouponline.com

Appendix B includes copies of all Resumes.

The Remedial Engineer (RE) for this project is George J. Cambourakis, P.E. The RE is a registered professional engineer licensed by the State of New York. The RE had primary direct responsibility for the implementation of the remedial investigation for the 100 East 149th Street Site and will certify in the Final Engineering Report (FER) that the remedial activities were observed by QEPs under his supervision. The QEP for this project is Rachel Ataman of Touchstone Environmental Geology, PC. The PE and QEP were each contracted separately by the Volunteer.

3.2 Health and Safety

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements. Additional information is presented in the Human Health Exposure Assessment (Section 6) of this RIR.

3.3 Materials Management

All material encountered during the RI and Subsurface Investigation was managed in accordance with applicable laws and regulations. Prior to the disposal of the drums the soil within the drums was tested in accordance with the disposal facility requirements. The soil in the drums were analyzed for TCL +10 VOCs and TICs via EPA Method 8260C,TCL + 20 SVOCs and TICs via EPA Method 8270C, Pesticides via EPA Method 8082, PCBs via EPA Method 8081, 21 PFAS compounds via EPA Method 1633, 1,4-dioxane via EPA Method 8270 SIM, Full TAL Metals list + Cyanide, Hexavalent Chromium, and Chromium Trivalent, TCLP RCRA Metals, TCLP Mercury, Corrosivity, and TCLP Lead. Laboratory analysis for the soil is still pending. A total of four (4) 55-gallon drums of soil investigation derived waste were removed from the Site on January 12, 2024 and were disposed of at the Republic Environmental Systems, LLC facility in Hatfield, Pennsylvania. The waste disposal manifests and analytical data for all drums removed from the Site are provided in **Appendix C** .

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Under the direct supervision of Structural Engineering Technologies, P.C. (S.E.T., PC), and on behalf of the Volunteer, Touchstone Environmental Geology, PC (Touchstone) performed the following scope of work:

1. Conducted a Site inspection to identify physical obstructions (i.e., structures, buildings, etc.);

2. Installed a total of seven soil borings (23SP1 through 23SP7) across the Site and installed three soil borings (23SP8 through 23SP10) off-Site, and collected a total of 40 soil samples for chemical analysis from the soil borings to obtain additional information on soil quality with respect to Soil Cleanup Objectives (SCOs) as follows:

   - Installed 23SP1 and 23SP8 to 25-feet below grade;
   - Installed 23SP9 to 27.5-feet below grade;
   - Installed 23SP2, 23SP3, 23SP4, 23SP5, 23SP6, 23SP7, and 23SP10 to 30-feet below grade;

3. Installed seven groundwater monitoring wells (23MW1 through 23MW7) throughout the Site and three groundwater monitoring wells (23MW8 through 23MW10) off-Site to establish groundwater flow and collected ten groundwater samples for chemical analysis to evaluate groundwater quality and assess groundwater impacts;

4. Installed four soil vapor probes (23SV1 through 23SV4) throughout the Site and installed two soil vapor probes (23SV5 and 23SV6) off-Site, and collected six soil vapor samples for chemical analysis;

5. Performed a tidal influence survey at the Site to determine if the groundwater levels at the Site are impacted by the Harlem River;

6. Collected one outdoor air sample (OA-1) for chemical analysis;

7. Conducted a Subsurface Site Investigation consisting of the performance of ground intrusive activities to investigate the cause of refusals encountered in the southern-central portion of the Site.

Appendix D provides photographs of the fieldwork performed under the RI. Analytical methods for sample collection are further discussed in Section 4.1 - Soil Probe Installation, Section 4.3 - Groundwater Monitoring Well Installation and Sampling, Section 4.4 - Installation of Soil Vapor Probes, and Section 4.5 - Sample Collection and Chemical Analysis.

4.1 Community Air Monitoring Plan

On-site air monitoring was conducted during all ground intrusive activities in accordance with the NYSDEC approved Remedial Investigation Work Plan (RIWP) dated May 2023. Air monitoring activities consisted of the use of a total of two (2) air monitoring stations with one station placed upwind and one station placed downwind of the work area. Each air monitoring station was equipped with a TSI Dust Track II and PID meter and particulate measurements were logged approximately every 15 minutes. The upwind and downwind stations were moved throughout the workday based on the work area and the wind direction. No odor or elevated PID readings were recorded during the implementation of the CAMP. The air monitoring data was included in the daily reports submitted to the NYSDEC Project Manager throughout the Remedial Investigation (RI). Copies of the Daily Reports submitted to the NYSDEC are provided in **Appendix E**.

4.2 Soil Probe Installation

Soil borings were installed in accordance with the NYSDEC approved RIWP dated May 2023. A total of 10 soil borings were installed during the RI. Seven soil borings (23SP1 through 23SP7) were installed within Site boundary. Three soil borings were installed off-Site as follows: two soil borings (23SP8 and 23SP9) were installed in the sidewalk to the west of the Site River Avenue and one soil boring (23SP10) was installed to the north of the Site along East 149th Street. Soil borings were installed to the following depths:

- Installed 23SP1 and 23SP8 to 25-feet below grade;
- Installed 23SP9 to 27.5-feet below grade;

- Installed 23SP2, 23SP3, 23SP4, 23SP5, 23SP6, 23SP7, and 23SP10 to 30-feet below grade;

The soil borings were installed between November 6, 2023 and November 13, 2023. At all soil boring locations, the soil samples were collected continuously at 5-foot intervals using a Geoprobe™ dual-tube system. The Geoprobe™ uses a direct push hydraulic percussion system to drive and retrieve core samples. Soil samples were retrieved using a 1.5-inch diameter, 5-foot-long core sampler with disposable acetate liners and dual-tube method to preserve sample integrity. In each soil boring location, sampling continued until a clean endpoint sample or until no contamination was observed. Refusal was encountered at approximately 5 to 10-feet below grade during the installation of soil boring/monitoring wells 23SP5/23MW5 and 23SP6/23MW6 resulting in the borings/monitoring wells being moved towards the western and eastern Site boundaries respectively. Section 4.2 provides further information regarding the investigation of the refusals encountered during the performance of the RI.

Collected soil samples were characterized by an experienced environmental professional and field screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). All observations were recorded in a bound project dedicated field book which was used to prepare a boring log for each soil boring location. Recorded observations included sample depth, sample recovery, soil type evidence of water (if encountered), PID readings, and physical evidence of contamination (odor, staining, sheen, etc.).

Historic fill material consisting of brick, concrete, asphalt, coal ash, brown, dark brown, black, and gray fine to medium grained sand and clay across the Site from grade to approximately 16 to 17-feet below grade. In some locations, the fill material extended to 22.5 feet below grade. Saturated conditions were identified from approximately 10 to 17 feet below grade during the soil probe installation. Gray and black staining was identified within the saturated soil at approximately 14 to 16 feet below grade and 22.5 to 25 feet below grade in soil boring 23SP3, at and above the water table interface at the from 8 to 14 feet below grade and within the saturated soil at 20 to 22.5 feet below grade in soil boring 23SP4, in the shallow soil in soil boring 23SP5 (2.5-5'), within the saturated soil at 12.5 to 17.5 feet below grade and 25 to 27.5 feet below grade in soil boring 23SP6, and above and at the water table interface from 12 to 25 feet below grade in soil boring 23SP7, at the within the saturated soil at 12.5 to 15 feet below

grade in soil boring 23SP8, at and above the water table interface at the from 10 to 15 feet below grade and within the saturated soil at 15 to 20 feet below grade in soil boring 23SP9, and within the saturated soil at 15 to 25 feet below grade in soil boring 23SP10. Petroleum odors were detected in the soil collected from 23SP1 (12.5-15'), 23SP3 (14-16', 16-18', 18-20', 20-22.5' and 22.5-25'), 23SP4 (8-10', 10-12', 12-14', 14-16',16-18', 18-20', and 25-27.5'), 23SP5 (12.5-15', 15-17.5', and 17.5-20'), 23SP6 (12.5-15'), 23SP7 (12-14', 14-16', 16-18', 18-20', and 22.5-25'), 23SP8 (15-17.5' and 17.5-20'), and 23SP9 (7.5-10', 10-12.5', and 12.5-15'). Boring logs prepared by a geologist are attached in **Appendix F**.

A total of 10 soil borings (designated 23SP1 through 23SP10) were installed during the RI. Seven soil borings (23SP1 through 23SP7) were installed within the Site boundary. Three soil borings were installed off-Site as follows: two soil borings (23SP8 and 23SP9) were installed in the sidewalk to the west of the Site along River Avenue and one soil boring (23SP10) was installed to the north of the Site along East 149th Street.

The following table describes the sample intervals collected from each soil probe sample:

Table A. Soil Sample Collection Intervals

Sample Location	0 to 2.5 feet	0 to 5 feet	8 to 12 feet	10 to 12.5 feet	12 to 14 feet	12.5 to 15 feet	14 to 16 feet	14 to 18 feet	15 to 17.5 feet	18 to 20 feet	18 to 22 feet	22.5 to 25 feet	25 to 27.5 feet	25 to 30 feet	27.5 to 30 feet
23SP1	X			X		X						X			
23SP2	X								X	X					X
23SP3	X		X		X									X	
23SP4		X			X		X								X
23SP5	X					X			X				X		
23SP6	X					X			X			X			
23SP7	X				X			X							X
23SP8	X			X			X						X		
23SP9	X			X		X							X		
23SP10	X					X					X		X		

A total of 40 soil samples were collected from the soil borings for chemical analysis to evaluate soil quality at the Site. The soil samples collected during the RI were analyzed as follows:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d)13 of DER-10.
- Pesticides via EPA Method 8081
- PCBs via EPA Method 8082
- 21 PFAS Compounds via EPA Method 1633
- 1,4-dioxane via EPA Method 8270 SIM.

A map showing the location of soil boring locations is shown in **Figure 5**. The soil sample analytical results are provided in **Tables 2A** through **2F**.

4.3 Subsurface Exploration Investigation Results

The NYSDEC project manager was notified of the soil probe and monitoring well refusals encountered at the Site on November 13, 2023. Touchstone submitted a Site Investigation Letter to the NYSDEC on November 15, 2023 as well as updated Site Investigation Letters per NYSDEC requests on November 17, 2023, and November 21, 2023. The Site Investigation proposed the performance of ground intrusive activity to investigate the cause of refusal in the southern portion of the Site which additionally coordinated with an anomaly identified during a Ground Penetrating Radar (GPR) survey performed during Touchstone's August 2020 Subsurface Investigation. The Site Investigation proposed the excavation of three 5' x 5' x 5' test pits in the southern-central portion of the Site. The NYSDEC Project Manager responded via email on November 22, 2023 indicating that the request to complete three test pits at the 100 E 149th Street Site (C203159) was approved according to the provided scope of work and RIWP. Touchstone performed the Site Investigation on December 1, 2023.

Metal sheeting was identified during the investigation and the area was further excavated. The excavation of the metal sheeting revealed the presence of a double auto service pit (42' x 16' x 5') used for automotive maintenance. At the bottom of one of the service pits, a 3' x 3' x 4' drain pit was discovered. The drain pit contained sludgy, wet soil with noticeable petroleum odor and a soil PID reading of 39.3 ppm was recorded. Additionally, a small amount of soil with a

petroleum odor and visible staining was identified in the southwest corner of the service pit. Impacted soil was separately stored on plastic sheeting at the Site and then was placed into two (2) 55-gallon drums. The drums were removed from the Site on January 12, 2024 and were properly disposed of at the Republic Environmental Systems, LLC facility in Hatfield, Pennsylvania. **Figure 2** provides a map indicating the locations of the auto service pit and drain pit. Waste disposal manifests and analytical data for all drums removed from the Site are provided in **Appendix C**.

Additionally, an auto service pit and a drain pit were identified in the southern-central portion of the Site. The auto service pit and drain pit bottoms were observed to be concrete. Brick walls formed the perimeter of the drain pits. During the investigation, an old hydraulic tank, approximately 10-gallon in capacity was identified. The hydraulic oil tank was disconnected, dry, and no product was identified. The tank was separated and wrapped in plastic and stored on-Site for future disposal.

Additionally, the anomaly identified during the previous GPR Survey in the western area near Exterior Street was determined to be the reinforced concrete footing and steel post of a former commercial billboard which were left in the ground.

The excavation was backfilled, and the ground was leveled following the completion of the investigation. As per the NYSDEC Project Manager request, the newly discovered oily pit was added to the site's existing spill case (NYSDEC Spill Number 18-10498).

During the excavation, some fill sand from the base of soil vapor probe 22SV3 was exposed. Since soil vapor sampling was conducted on November 29, 2023 prior to the December 1, 2023 Subsurface Exploration Investigation, the data collected from 22SV3, discussed in Section 5.4 of this RIR, is still viable. However, if future testing of 22SV3 is required then the soil vapor probe should be reinstalled.

4.4 Groundwater Monitoring Well Installation and Sampling

A total of ten 2-inch diameter monitoring wells (designated 23MW1 through 23MW10) were successfully installed during this RI between November 6, 2023 and November 13, 2023. Monitoring wells 23MW1 through 23MW7 were installed within the Site boundary and

monitoring wells 23MW8 through 23MW10 were installed off-Site in the surrounding sidewalk. Groundwater samples were analyzed as follows:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10;
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d) 13 of DER-10 – filtered and unfiltered;
- Pesticides via EPA Method 8081;
- PCBs via EPA Method 8082;
- 21 PFAS Compounds via EPA Method 1633;
- 1,4-dioxane via EPA Method 8270 SIM.

All monitoring wells were installed with a track mounted Geoprobe using mud rotary technology. Each well was installed to a depth of approximately 30-feet below grade and is constructed with 2-inch diameter PVC. The well screens consist of 0.010-inch slots and are present from approximately 5-feet above to 10-feet below the groundwater level in each well. A No. 00 Morie filter sand was placed in the borehole to within 2-feet above the top of the screen. A 1-foot hydrated bentonite seal was placed on top of the filter sand and the remainder of the borehole was backfilled to grade. The monitoring wells 23MW1 through 23MW4 and 23MW7 through 23MW10 were finished with 5-inch manhole covers. Monitoring well construction and development logs are provided in **Appendix G**. Monitoring well locations are depicted in **Figure 6**.

Groundwater samples were collected from the newly installed monitoring wells through the use of polyethylene tubing and a peristaltic pump with disposable peristaltic pump tubing. The groundwater sampling activities were recorded in the project dedicated field book. The field notes can be found in **Appendix K** and include a description of:

- Date and time of sample collection;
- Sample Location;
- Purging time, duration, and volume;

- Sample appearance;
- Analytical methodology;

The groundwater samples were collected in accordance with the following USEPA low-flow sampling procedures:

- Record pump make and model on sampling form;
- Inspect each well for any damage or evidence of tampering and note condition in field logbook.
- Remove the well cap.
- Lay out plastic sheeting and place the monitoring, purging, and sampling equipment on the sheeting.
- To avoid cross-contamination, do not let any downhole equipment touch the ground.
- Measure well headspace with a PID or FID and record the reading in the field logbook.
- A synoptic water level measurement round was performed (in the shortest possible time) before any purging and sampling activities began. Measure and record the depth to water using a water level meter or interface probe to the nearest 0.01 ft. Record the measurement in the field logbook. Do not measure the depth to the bottom of the well at this time (to avoid disturbing any sediment that may have accumulated). Obtain depth to bottom information from installation information in the field logbook or soil boring logs.
- Collect samples in order from wells with lowest contaminant concentration to highest concentration.
- Connect the polyethylene tubing to the peristaltic pump and lower the tubing into the well to approximately the middle of the screen. Tubing should be a minimum of 2 feet above the bottom of the well as this may cause mobilization of any sediment present in the bottom of the well. As per the NYSDEC approved work plan dated May 2020, groundwater samples were obtained using dedicated polyethylene tubing and a peristaltic pump with disposal peristaltic pump tubing. However, please note that the peristaltic pump is not appropriate for VOC sampling as per EPA guidance.
- Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level

drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet but remains stable, continue purging until indicator field parameters stabilize.

- There should be at least 1 foot of water over the end of the tubing so there is no risk of entrapment of air in the sample. Pumping rates should be reduced to the minimum capabilities of the pump, if needed, to avoid purging the well dry. However, if the recharge rate of the well is very low and the well is purged dry, then wait until the well has recharged to a sufficient level and collect the appropriate volume of sample.
- During well purging, monitor indicator field parameters (temperature, specific conductance, and pH) every three to five minutes (or less frequently, if appropriate). The water quality parameters were collected with a Horiba U52-2 Water Quality Meter. The parameters were collected by running the groundwater through a flow-trough cell. Note: during the early phase of purging emphasis should be put on minimizing and stabilizing pumping stress and recording those adjustments. Purging is considered complete and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings, taken at three (3) to five (5) minute intervals, are within the following limits:
    - specific conductance (3%),
    - temperature (3%)
    - pH (± 0.1 unit)
    - If stability is not reached within a reasonable time period, purging may be stopped, and the sample collected. This should be noted on the sampling log.
- VOC samples should be collected directly into pre-preserved sample containers. Fill all sample containers by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. Fill each container with sample to just overflowing so that no air bubbles are entrapped inside. Cap each bottle as it is filled.
- Label the samples and record them on the chain of custody form. Place immediately into a cooler for shipment and maintain at 4°C.
- Remove the tubing from the well. The polyethylene tubing must either be dedicated to each well or discarded. If dedicated the tubing should be placed in a large plastic garbage bag, sealed, and labeled with the appropriate well identification number.
- Close and lock the well.

- Decontaminate pump either by changing the surgical pump tubing between wells or as follows:
    1. Flush the equipment/pump with potable water.
    2. Flush with non-phosphate detergent solution. If the solution is recycled, the solution must be changed periodically.
    3. Flush with potable or distilled/deionized water to remove all of the detergent solution. If the water is recycled, the water must be changed periodically.
    4. Flush with isopropyl alcohol (pesticide grade). If equipment blank data from the previous sampling event show that the level of contaminants is insignificant, then this step may be skipped.
    5. Flush with distilled/deionized water. The final water rinse must not be recycled.

Field sampling guidelines for PFAS are described below. The following sample container procedures were followed:

- All PFAS Sample container procedures first on Site;
- Groundwater samples were collected from the monitoring wells utilizing dedicated HDPE tubing which were replaced with new tubing between each monitoring well.
- All sample containers made of HDPE or polypropylene;
- Caps are unlined and made of HDPE or polypropylene (no Teflon®-lined caps).

The following field clothing and PPE procedures were followed:

- No clothing or boots containing Gore-Tex®.
- All safety boots made from polyurethane and PVC.
- No materials containing Tyvek®.
- Do not use fabric softener on clothing to be worn in the field.
- Do not used cosmetics, moisturizers, hand cream, or other related products the morning of sampling.
- Do not use unauthorized sunscreen or insect repellant.
- Wet weather gear made of polyurethane and PVC only.
- Sampler must use powderless nitrile gloves.

The following field equipment procedures were followed:

- Must not contain Teflon® (aka PTFE) or LDPE materials.

- All sampling materials must be made from stainless steel, HDPE, acetate, silicon, or polypropylene.
- No waterproof field books can be used.
- No plastic clipboards, binders, or spiral hard cover notebooks can be used.
- No adhesives (i.e. Post-It® Notes) can be used.
- Sharpies and permanent markers not allowed; regular ballpoint pens are acceptable.
- Aluminum foil must not be used.
- Keep PFC samples in separate cooler, away from sampling containers that may contain PFAS.
- Coolers filled with regular ice only - Do not use chemical (blue) ice packs or freezer packs.

Monitoring well logs and field logs for monitoring wells are provided in **Appendix K**.

Water Level Measurement

The depth to groundwater in each well was initially measured in November 2023. Depth to groundwater was measured in monitoring wells 23MW1, 23MW2, 23MW3, 23MW8, 23MW9, and 23MW10 on November 17, 2023 and depth to groundwater was measured in monitoring wells 23MW4, 23MW5, 23MW6, and 23MW7 on November 21, 2023. Per NYSDEC comments, the depth to groundwater in each well was additionally measured on April 24, 2024. Trace product was identified using the Interface Probe in monitoring wells 23MW2 and 23MW6 during the April 24, 2024 groundwater elevation investigation. Trace product was not identified in any of the monitoring wells in November 2023.

One round of static water levels was obtained prior to groundwater purging and sampling to determine groundwater elevation and groundwater flow direction. Water level data is included in **Table 1**. Groundwater head measurements were collected utilizing a Solinst® 122 Oil/Water Interface Probe (Interface Probe). The Interface Probe can measure depths to water to 0.01 inch. The depth to water was measured in each well from the northern point of the casing top. The depth to water was gauged and the results revealed the depth to water as follows:

Monitoring Well ID	Depth to Water (feet)		
	November 2023		April 2024
	11/17/2023	11/21/2023	04/24/2024
23MW1	13.04	N/A	12.83
23MW2	13.42	N/A	13.22
23MW3	13.01	N/A	12.89
23MW4	N/A	13.27	12.87
23MW5	N/A	13.91	12.19
23MW6	N/A	13.01	13.02
23MW7	N/A	12.98	12.45
23MW8	11.48	N/A	11.17
23MW9	12.55	N/A	12.26
23MW10	13.25	N/A	13.09

Groundwater samples were collected in pre-cleaned laboratory supplied glassware, stored in a cooler with ice and submitted to a New York State ELAP certified environmental laboratory. A total of ten groundwater samples designated 23MW1 through 23MW10 were collected and submitted for laboratory analysis of the following:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10;
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d) 13 of DER-10 – filtered and unfiltered;
- Pesticides via EPA Method 8081;
- PCBs via EPA Method 8082;
- 21 PFAS Compounds via EPA Method 1633;
- 1,4-dioxane via EPA Method 8270 SIM.

Groundwater sample analytical results are provided in **Tables 3A** through **3F**.

The NYSDEC additionally requested that an additional groundwater investigation be conducted to determine whether there is any tidal influence on the groundwater levels at the Site due to the close proximity of the Site to the Harlem River. On July 10, 2024, S.E.T., PC mobilized to the Site with three (3) 10-meter Vanessen Micro-Divers and one (1) 1.5-meter Vanessen Baro-Diver. The three (3) Van Essen Micro-Divers were deployed within monitoring wells 23MW4, 23MW7, and 23MW10 between 9:30 am and 10:00 am on July 10, 2024 and

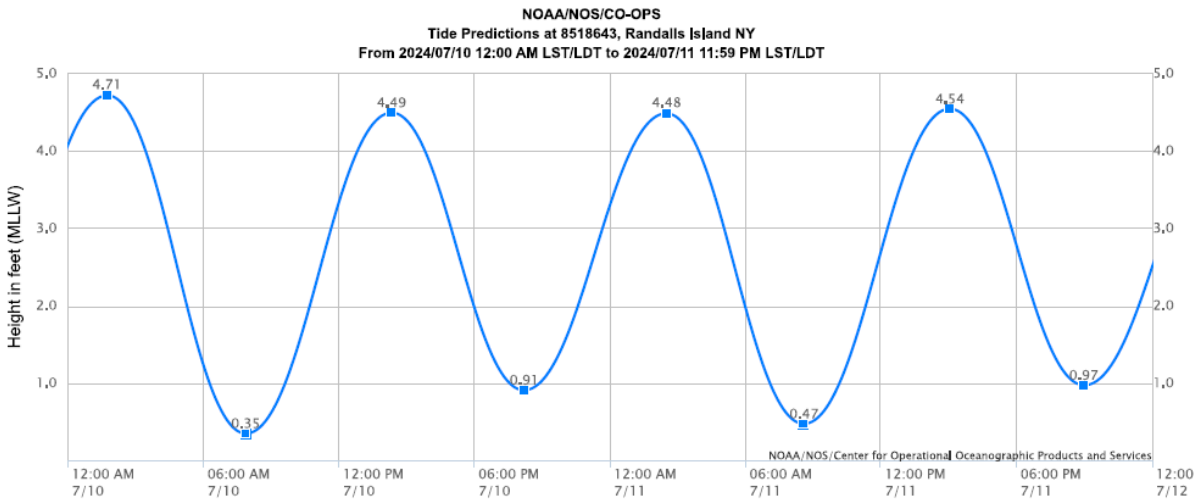
were programmed to collect groundwater level readings once every half-hour for a 24-hour period. Initially the depth to water in each well was measured with an interface probe. Depth to water within monitoring wells 23MW4, 23MW7, and 23MW10 and the deployment depth of the divers in each well is summarized in the table below:

Table B. Tidal Influence Survey Depth to Water

Monitoring Well ID	Depth to Water (ft bg) July 10, 2024	Diver Deployment Depth (ft bg)
23MW4	13.08	20
23MW7	12.80	18
23MW10	13.29	20

The micro-divers and baro-divers were collected from the Site at 9:30 am on July 11, 2024. The results of the tidal influence study indicated that the water level, temperature, and pressure within each monitoring well (23MW4, 23MW7, and 23MW10) remained relatively stable during the sampling period. As indicated in **Table C**, the water level above the divers fluctuated approximately ±0.12221 feet in 23MW4, approximately ±0.13014 feet in 23MW7, and ±0.30156 feet in 23MW10.

The tide chart for the Randalls Island, New York station for the interval of July 10, 2024 through July 11, 2024 is presented below:



Note: The interval is High/Low, the solid blue line depicts a curve fit between the high and low values and approximates the segments between.
Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

The tide chart for the Randalls Island, New York NOAA station indicates that the Harlem River tide fluctuated approximately 4.36 feet on July 10, 2024 and approximately 4.01 feet on July 11, 2024.

Based upon the minimal fluctuations detected in each monitoring well during the tidal influence survey it appears that the groundwater level at the Site is not impacted by the tidal changes of the Harlem River.

Monitoring Well Survey

The monitoring well survey was performed by AAA Group Land Surveying Services of the Brooklyn, New York. The survey was conducted on January 12, 2024. All monitoring wells were surveyed to determine the relative casing elevation to the nearest 0.01-ft and horizontal position to the nearest 0.1-ft. **Table 1** provides the results of the survey data for November 2023 and April 2024. Groundwater flow at the Site was determined to be towards the northwest.

Appendix H provides the NYS Certified Well Survey. **Figure 7** provides the groundwater flow diagram.

4.5 Soil Vapor Probe Installation

A total of six soil vapor implants (23SV1 through 23SV6) were installed at a depth of approximately 5 to 8-feet below grade. Soil vapor probes 23SV1, 23SV2, 23SV5, and 23SV6 and were finished with manhole covers. A total of six soil vapor samples and one outdoor air sample were collected for chemical analysis during this RI. Soil vapor and ambient air sampling locations are provided in **Figure 8.** Soil vapor sample and ambient air collection data is provided in **Table 4.** Soil vapor sampling logs are provided in **Appendix J.** Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006, with updates*.

The soil vapor implants were installed with Geoprobe™ equipment and constructed in the same manner at all locations to minimize possible discrepancies. The implants were premanufactured 6-inch stainless steel mesh tubes fitted with 1/4-inch polyethylene tubing which extended to the surface. Coarse sand was added to create a sampling zone of one foot in length and sealed above with hydrated bentonite powder for a minimum distance of 3 feet. The tubing

at all locations was sealed at the surface with hydrated granular bentonite and a 6" x 6" (approximate) plastic sheet.

Prior to the collection of the soil gas samples, a leak test was conducted to determine if the sampling equipment connection was tight. The sampling system was leaked test by covering the sample port with a shroud that was filled with 99.999% pure helium source. The shroud was sealed to the ground with a bentonite seal. The shroud allowed two other sampling ports where the leak check samples were pulled, and the helium concentration could be tested. If helium was detected within the soil vapor tubing it was determined a leak had occurred and the seals were reapplied and tested again.

After installation of the soil gas probes, one to three volumes (i.e., the volume of the sample probe and tube) was purged prior to collecting the samples to ensure samples collected were representative. Flow rates for both purging and collecting did not exceed 0.2 liters per minute to minimize outdoor air infiltration during sampling. Samples were collected in Summa® canisters which had been certified clean by the laboratory and analyzed by using USEPA Method TO-15. All samples were collected over an 8-hour period of time and submitted to a NYSDOH certified laboratory.

A sample log sheet was maintained summarizing sample identification, date, and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of soil vapor extracted, vacuum of canisters before and after samples are collected, and chain of custody protocols. As part of the testing, a tracer gas was used in accordance with NYSDOH protocols to serve as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor probe seal. Helium was used as the tracer gas and a box served to keep it in contact with the probe during the testing. A portable monitoring device was used to analyze a sample of soil vapor for the tracer prior to sampling. If tracer sample results show a significant presence of the tracer, the probe seals were adjusted to prevent infiltration.

After the collection of the analytical sample, a field reading was recorded at each sampling point utilizing a photoionization detector capable of detecting organic compounds in the parts per billion range.

As discussed in Section 4.3, during the excavation conducted as part of the Subsurface

Exploration Investigation, some fill sand from the base of soil vapor probe 22SV3 was exposed. Since soil vapor sampling was conducted on November 29, 2023 prior to the December 1, 2023 Subsurface Exploration Investigation, the data collected from 22SV3, discussed in Section 5.4 of this RIR, is still viable. However, if future testing of 22SV3 is required then the soil vapor probe should be reinstalled.

4.6 Sample Collection and Chemical Analysis

Sampling performed as part of the field investigation was conducted to determine the nature and extent of the on-Site contamination and to identify all sources of contamination (horizontal/vertical) that may be present at the Site. All media including soil, groundwater, and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

All samples were properly handled and placed into pre-cleaned, appropriately labeled, laboratory supplied containers. The samples were placed in a cooler filled with ice and maintained at a maximum of 4 degrees Celsius. All samples were transported under proper chain of custody procedures to a New York State Department of Health ELAP-certified laboratory for confirmatory laboratory analyses. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control.

Additionally, Quality Assistance/Quality Control (QA/QC) of soil samples included the submission of Data Usability Summary Reports (DUSR's) for York Analytical Laboratories, Inc. The reports were prepared by Michael Perry of Environmental Data Usability. No abnormalities were found by Mr. Perry's DUSR's are provided in **Appendix I**.

A total of 40 soil samples (23SP1 (0-2.5', 10-12.5', 12.5-15', 22.5-25'), 23SP2 (0-2.5', 15-17.5', 18-20', 27.5-30'), 23SP3 (0-2.5', 8-12', 12-14', 25-30'), 23SP4 (0-5', 12-14', 14-16', 27.5-30'), 23SP5 (0-2.5', 12.5-15', 15-17.5', 25-27.5'), 23SP6 (0-2.5', 12.5-15', 15-17.5', 22.5-25'), 23SP7 (0-2.5', 12-14', 14-18', 27.5-30'), 23SP8 (0-2.5', 10-12', 14-16', 25-27.5'), 23SP9

(0-2.5', 10-12.5', 12.5-15', 25-27.5'), and 23SP10 (0-2.5', 12.5-15', 18-22', 25-27.5')) were analyzed for the presence of the following:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10;
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d)13 of DER-10.
- Pesticides via EPA Method 8081
- PCBs via EPA Method 8082
- 21 PFAS Compounds via EPA Method 1633
- 1,4-dioxane via EPA Method 8270 SIM.

Data on soil sample collection for chemical analyses, including dates of collection and sample depths, is reported in **Tables 2A** through **2F**. **Figure 5** shows the location of soil samples collected in this investigation and **Figures 9A** through **9D** depict the compounds above Unrestricted Use Soil Cleanup Objectives (UUSCOs), Restricted Residential Use Soil Cleanup Objectives (RRSCOs), and applicable Protection of Groundwater Soil Cleanup Objectives (PGSCOs). Laboratories and analytical methods are shown below.

Groundwater Sampling

Groundwater samples were analyzed for the following during this RI:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10;
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d) 13 of DER-10 – filtered and unfiltered;
- Pesticides via EPA Method 8081;
- PCBs via EPA Method 8082;
- 21 PFAS Compounds via EPA Method 1633;

- 1,4-dioxane via EPA Method 8270 SIM.

All samples were properly handled and placed into the appropriately labeled containers. The samples were placed in a cooler filled with ice and maintained at a maximum of 4 degrees Celsius. All samples were transmitted under proper chain of custody procedures to a State-certified (ELAP) laboratory for confirmatory laboratory analyses. All holding times were met. The laboratory did not report any irregularities with respect to their internal Quality Assurance/Quality Control (QA/QC).

QA/QC additionally included the analysis of a total of 47 blank samples collected during the RI sampling. A total of 10 field and trip blank samples were analyzed for VOCs via EPA Method 8260. A total of four field blank samples were analyzed for PFAS (NYSDEC Analyte List) via EPA 1633.

A total of 10 groundwater samples were collected for chemical analysis during this RI. Groundwater sample collection data is reported in **Tables 3A** through **3F**. Sampling logs with information on purging and sampling of groundwater monitor wells is included in **Appendix K**. **Figure 6** shows the groundwater sampling locations. Laboratories and analytical methods are shown below.

Soil Vapor Sampling

A total of six soil vapor implants (23SV1 through 23SV6) were installed during the RI. A total of six soil vapor samples (23SV1 through 23SV6) and one outdoor air sample (OA-1) were collected for chemical analysis during this RI. Soil vapor and ambient air sampling locations are provided in **Figure 8**. Soil vapor sample and ambient air collection data is provided in **Table 4**. Soil vapor sampling logs are provided in **Appendix J**. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006, with updates*.

The soil vapor probes were connected to ¼-inch outside diameter inert Teflon-lined polyethylene tubing, which extended above ground surface to allow for purging and sampling. The Summa® Cannisters were calibrated for 8-hours, and the vapor or ambient air sampling was run on each cannister for the duration of 8-hours. The initial vacuum (inches of mercury) and start time was recorded immediately after opening each Summa® Cannister. After the sampling

was complete, the final vacuum and stop time was recorded. After the soil vapor sampling, each Summa® Cannister was labeled and sent to a laboratory certified to perform air analysis in New York State and analyzed for VOCs via EPA Method TO-15.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by Rachel Ataman, PG.
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified and was York Analytical Laboratories.
Chemical Analytical Methods	Soil Analytical Methods: • Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10; • Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d)13 of DER-10. • Pesticides via EPA Method 8081 • PCBs via EPA Method 8082 • 21 PFAS Compounds via EPA Method 1633 • 1,4-dioxane via EPA Method 8270 SIM. Groundwater Analytical Methods: • Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10; • Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d) 13 of DER-10 – filtered and unfiltered; • Pesticides via EPA Method 8081; • PCBs via EPA Method 8082; • 21 PFAS Compounds via EPA Method 1633; • 1,4-dioxane via EPA Method 8270 SIM. Soil Vapor and Ambient Air Analytical Methods: • VOCs via EPA Method TO-15.
Data Usability	Data Usability Summary Reports (DUSRs) were prepared by Mr. Michael Perry of Environmental Data Usability.

Sampling and analysis for emerging contaminants (PFAS and 1,4-dioxane) were performed in accordance with DEC Guidance.

Results of Chemical Analyses

Groundwater monitoring data is summarized in **Table 1**. Laboratory data for soil is summarized in **Tables 2A** through **2F**, groundwater data is summarized in **Tables 3A** through **3F**, and soil vapor and ambient air data is summarized in **Table 4**, respectively. Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in **Appendix L**.

4.7 Management of Investigation Derived Wastes

Investigation derived waste (IDW) includes contaminated soil, groundwater, and disposable sampling equipment generated during the remedial investigation.

Soil generated during the installation of soil probes and monitoring wells and petroleum-impacted soil identified during the subsurface exploration investigation was placed into properly labeled U.S. Department of Transportation (DOT) approved 55-gallon drums. Purge water generated during groundwater sampling was containerized in drums. Two (2) 55-gallon drums of IDW were generated during the RI and two (2) 55-gallon drums of petroleum impacted soil IDW were generated during the Subsurface Investigation. Prior to the disposal of the drums the material within the drums was tested in accordance with the disposal facility requirements. The soil in the drums were analyzed for TCL +10 VOCs and TICs via EPA Method 8260C,TCL + 20 SVOCs and TICs via EPA Method 8270C, Pesticides via EPA Method 8082, PCBs via EPA Method 8081, 21 PFAS compounds via EPA Method 1633, 1,4-dioxane via EPA Method 8270 SIM, Full TAL Metals list + Cyanide, Hexavalent Chromium, and Chromium Trivalent, TCLP RCRA Metals, TCLP Mercury, Corrosivity, and TCLP Lead.

A total of four (4) 55-gallon drums of soil IDW were removed from the Site on January 12, 2024 and were disposed of at the Republic Environmental Systems, LLC facility in Hatfield, Pennsylvania. The waste disposal manifests and analytical data for all drums removed from the Site are provided in **Appendix C** .

Disposable sampling equipment (gloves, tubing, acetate liners, etc.) were placed in heavy-duty plastic bags and disposed of properly.

4.8 Deviations from the Remedial Investigation Work Plan

The following deviations have been made from the NYSDEC approved Remedial Investigation Work Plan (RIWP) dated May 2023:

- Refusals were encountered during the installation of soil borings/monitoring wells 23SP5/23MW5 and 23SP6/23MW6. The NYSDEC project manager was notified of drilling difficulties at the Site via emails, phone calls, and in our daily and monthly reports. Following the notification of the NYSDEC, a Site Investigation was conducted on December 1, 2023. Information regarding the Site Investigation is provided in Section 4.2 of this report.

- Due to the refusals encountered in the proposed location of 23SP5/23MW5 and 23SP6/23MW6, the drilling locations for 23SP5/23MW5 and 23SP6/23MW6 were moved towards the western and eastern Site boundaries, respectively. The NYSDEC project manager was informed of the location change in a daily report dated November 13, 2023.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

The Site is located in the western portion of Bronx, New York. The elevation of the Site is approximately 8-feet above the National Geodetic Vertical Datum (NGVD).

Stratigraphy

The stratigraphy of the Site from surface down to approximately 17.5 to 20-feet below grade is classified as medium to fine-grained brown sand and clay-like sand with fill materials. Saturated soils were identified 14 to 30 feet below grade where the monitoring well installation borings were terminated. The results of the sampling performed during this RI identified levels of historic fill material consisting of brick, concrete, asphalt, coal ash, brown, dark brown, black, and gray fine to medium grained sand and clay across the Site from grade to approximately 16 to 17-feet below grade. In some locations, the fill material extended to 22.5 feet below grade. Depending on the location, the historic fill materials contain one or more metals (including arsenic, chromium hexavalent, chromium trivalent, copper, lead, nickel, selenium, silver, and mercury), the pesticide 4,4'-DDT, and polycyclic aromatic hydrocarbons (PAHs) at concentrations exceeding their respective Unrestricted Use Soil Cleanup Objectives (UUSCOs). The pesticide 4,4'-DDT was detected at a concentration exceeding its UUSCO in one shallow sample (23SP3 (0-2.5 ft): 0.00494 mg/kg). The PFAS compound Perfluorooctanesulfonic acid (PFOS) was detected at a concentration exceeding its UUSCO in the shallow soil (0-2.5 feet) and was detected at concentrations exceeding its UUSCO and PGSCO in the shallow (0-2.5 feet) to moderately deep (8-12 feet) soils in the western portion of the Site. Additionally, elevated levels of PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene) was identified in soil samples ranging from 0 to 5 feet to 12 to 22 feet below grade, and the metals arsenic, barium, lead, and mercury were identified in shallow (0 to 2.5 feet) and moderately deep to deep soils (8 to 22 feet) at concentrations exceeding their respective Restricted Residential Use SCOs (RRSCOs).

Waste characterization sampling will be performed in accordance with disposal facility requirements and will most likely include the collection of one 5-point composite sample per 1,000 tons of soil requiring disposal. Bedrock was not encountered during the installation of the borings.

Hydrogeology

A table of water level data for all monitoring wells is included in **Table 1** of this report. Groundwater flow is to the northwest across the Site.

Depth to groundwater at the Site was identified as follows:

Monitoring Well ID	Depth to Water (feet)		
	November 2023		April 2024
	11/17/2023	11/21/2023	04/24/2024
23MW1	13.04	N/A	12.83
23MW2	13.42	N/A	13.22
23MW3	13.01	N/A	12.89
23MW4	N/A	13.27	12.87
23MW5	N/A	13.91	12.19
23MW6	N/A	13.01	13.02
23MW7	N/A	12.98	12.45
23MW8	11.48	N/A	11.17
23MW9	12.55	N/A	12.26
23MW10	13.25	N/A	13.09

Figure 7 depicts the groundwater flow direction across the Site.

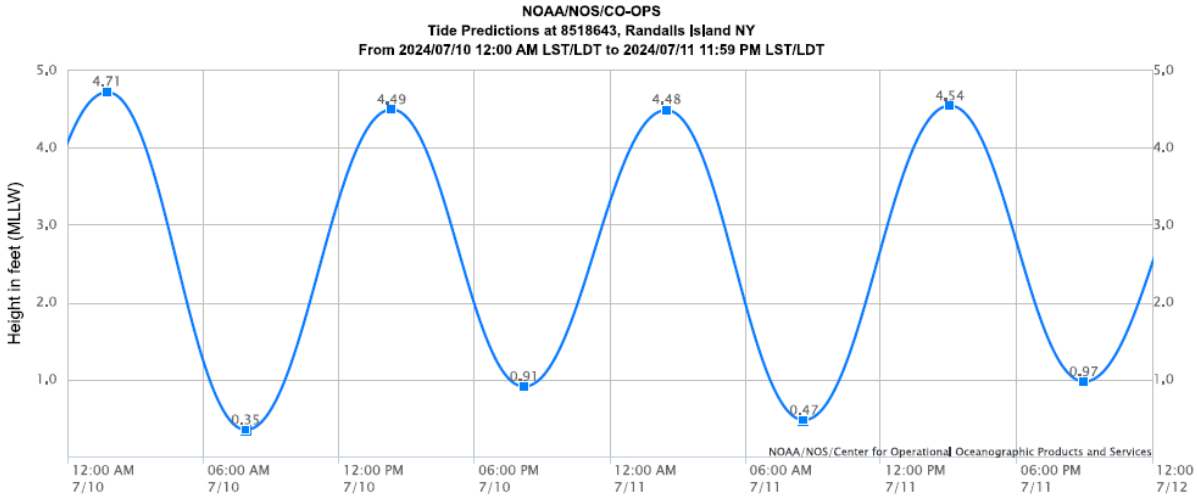
The NYSDEC additionally requested that an additional groundwater investigation be conducted to determine whether there is any tidal influence on the groundwater levels at the Site due to the close proximity of the Site to the Harlem River. On July 10, 2024, S.E.T., PC mobilized to the Site with three (3) 10-meter Vanessen Micro-Divers and one (1) 1.5-meter Vanessen Baro-Diver. The three (3) Van Essen Micro-Diver were deployed within monitoring wells 23MW4, 23MW7, and 23MW10 between 9:30 am and 10:00 am on July 10, 2024 and were programmed to collect groundwater level readings once every half-hour for a 24-hour period. Initially the depth to water in each well was measured with an interface probe. Depth to water within monitoring wells 23MW4, 23MW7, and 23MW10 and the deployment depth of the divers in each well is summarized in the table below:

Table B. Tidal Influence Survey Depth to Water

Monitoring Well ID	Depth to Water (ft bg) July 10, 2024	Diver Deployment Depth (ft bg)
23MW4	13.08	20
23MW7	12.80	18
23MW10	13.29	20

The micro-divers and baro-divers were collected from the Site at 9:30 am on July 11, 2024. The results of the tidal influence study indicated that the water level, temperature, and pressure within each monitoring well (23MW4, 23MW7, and 23MW10) remained relatively stable during the sampling period. As indicated in **Table C**, the water level above the divers fluctuated approximately ±0.12221 feet in 23MW4, approximately ±0.13014 feet in 23MW7, and ±0.30156 feet in 23MW10.

The tide chart for the Randalls Island, New York station for the interval of July 10, 2024 through July 11, 2024 is presented below:



Note: The interval is High/Low, the solid blue line depicts a curve fit between the high and low values and approximates the segments between.
Disclaimer: These data are based upon the latest information available as of the date of your request, and may differ from the published tide tables.

The tide chart for the Randalls Island, New York NOAA station indicates that the Harlem River tide fluctuated approximately 4.36 feet on July 10, 2024 and approximately 4.01 feet on July 11, 2024.

Based upon the minimal fluctuations detected in each monitoring well during the tidal influence survey it appears that the groundwater level at the Site is not impacted by the tidal changes of the Harlem River.

5.2 Soil Chemistry

Soil/fill samples collected during this RI were compared to NYSDEC Unrestricted Use Soil Cleanup Objectives (SCOs) and Restricted Residential Use SCOs (RRUSCOs) as presented in 6 NYCRR Part 375-63.8. Additionally, volatile organic compounds (VOCs), the semi-volatile

organic compound (SVOC) naphthalene, and PFAS compounds detected in groundwater samples were compared to the Protection of Groundwater SCOs (PGSCOs) as presented in 6 NYCRR Part 375-63.8.

No PCB compounds nor the compound 1,4-Dioxane were detected in any soil samples at concentrations exceeding their respective UUSCOs.

Petroleum related compounds were identified in the saturated soil across the Site. The petroleum related compound xylenes, total was detected at a concentration exceeding its UUSCO of 0.26 mg/kg but less than its PGSCO of 1.6 mg/kg and its RRSCO of 100 mg/kg in the 15-to-17.5-foot samples collected from 23SP2 (0.42 mg/kg) and in the 18-to-22-foot sample collected from 23SP10 (0.72 mg/kg). The petroleum related compounds 1,2,4-trimethylbenzene (max of 420 mg/kg in 23SP1 (12.5-15')), 1,3,5-trimethylbenzene (120 mg/kg in 23SP1 (12.5-15')), ethyl benzene (98 mg/kg in 23SP1 (12.5-15 ft)), and xylenes, total (200 mg/kg in 23SP1 (12.5-15 ft)) were detected at a concentration exceeding their respective UUSCO, RRSCO, and PGSCO standards. No other compounds were detected in any soil samples at concentrations exceeding their respective RRSCOs. The petroleum related compounds 1,2,4-trimethylbenzene (max of 16 mg/kg in 23SP4 (14-16')), 1,3,5-trimethylbenzene (max of 45 mg/kg in 23SP2 (15-17.5 ft)), benzene (max of 2.60 mg/kg in 23SP6 (15-17.5 ft)), ethyl benzene (max of 34 mg/kg in 23SP2 (15-17.5 ft)), n-butyl benzene (22 mg/kg in 23SP1 (12.5-15 ft) and 23SP5 (12.5-15 ft)), n-Propyl benzene (max of 53 mg/kg in 23SP1 (12.5-15 ft)), toluene (max of 10 mg/kg in 23SP1 (12.5-15 ft)), and xylenes, total (max of 38 mg/kg in 23SP4 (12-14 ft)) were detected at concentrations exceeding their respective UUSCOs and PGSCOs only. As discussed below, elevated concentrations of petroleum related VOCs were identified at concentrations exceeding their respective NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1 Ambient Water Quality Standards (AWQS) in the groundwater samples collected all monitoring wells with the exception of 23MW8. Monitoring wells were installed within their corresponding soil boring location (e.g., 23MW1 was installed in the same location as 23SP1). Based upon the petroleum related compounds being identified in the saturated soils within the water table, it is likely that this contamination is related to the presence of petroleum related VOCs in the groundwater beneath the Site.

Additionally, the VOC acetone was detected at concentrations exceeding its UUSCO in several samples at 10 to 12.5 feet below grade (0.059 mg/kg in 23SP1), 15 to 17.5 feet below grade (0.066 mg/kg in 23SP2), and 12.5 to 15 feet below grade (0.310 mg/kg in 23SP10). Acetone is a common laboratory contaminant and is not considered to represent contamination on-Site.

The semi volatile organic compounds (SVOCs) benzo(a)anthracene (max of 10.30 mg/kg in 23SP10 (18-22')) and chrysene (10.30 mg/kg in 23SP10 (18-22')) were detected at concentrations exceeding their respective UUSCOs and RRSCOs. SVOCs including benzo(a)pyrene (max of 11 mg/kg in 23SP10 (18-22')), benzo(b)fluoranthene (max of 12.40 mg/kg in 23SP10 (18-22')), benzo(k)fluoranthene (4.63 mg/kg in 23SP10 (18-22')), dibenzo(a,h)anthracene (max. of 1.28 mg/kg in 23SP10 (18-22')), and indeno (1,2,3-cd)pyrene (max of 7.38 mg/kg in 23SP10 (18-22')) were detected at concentrations exceeding their respective UUSCOs and RRSCOs only. The SVOCs chrysene (max of 2.35 mg/kg in 23SP4 (0-5')) and benzo(k)fluoranthene (max of 2.11 mg/kg in 23SP4 (0-5')) were additionally detected at concentrations exceeding their respective UUSCOs but less than their respective RRSCO and PGSCO standards.

The pesticide 4,4'-DDT (0.00494 mg/kg in 23SP3 (0-2.5')) was detected at a concentration exceeding its UUSCO in one shallow soil sample.

The metals arsenic (max of 15.90 mg/kg in 23SP9 (12.5-15')), chromium hexavalent (max of 2.69 mg/kg in 23SP6 (0-2.5')), chromium trivalent (max of 44.20 mg/kg in 23SP5 (15-17.5')), copper (max of 252 mg/kg in 23SP7 (14-18')), lead (max of 358 mg/kg in 23SP4 (14-16')), mercury (max of 0.583 mg/kg in 23SP2 (12.5-15')), nickel (39.10 mg/kg in 23SP5 (15-17.5'), selenium (max of 7.84 mg/kg in 23SP1 (12.5-15')), and silver (30.50 mg/kg in 23SP2 (18-20')) were detected at concentrations exceeding their respective UUSCOs. The metals arsenic (max of 38.40 mg/kg in 23SP1 (12.5-15')), barium (478 mg/kg in 23SP3 (0-2.5')), lead (539 mg/kg in 23SP2 (18-20')), and mercury (63.60 mg/kg in 23SP5 (12.5-15')) were detected at concentrations exceeding their respective UUSCOs and RRSCOs.

The PFAS compound Perfluorooctanesulfonic acid (PFOS, max. of 2.64 mg/kg in 23SP1 (0-2.5')) was detected in several soil samples at concentrations exceeding its UUSCO of 0.88 ug/kg and was detected in three soil samples at concentrations exceeding its PGSCO of 1 ug/kg.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site. A summary table of data for chemical analyses performed on soil samples is included in **Tables 2A (VOCs), 2B (SVOCs), 2C (Pesticides), 2D (Metals), 2E (PCBs),** and **2F (PFAS)**. **Figures 9A** through **9D** show the location and post the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives.

Based upon the soil analytical results, it appears that petroleum impacts are present in the saturated soil present from 10 to 20 feet below grade as evidenced by the VOC results of 23SP1, 23SP2, 23SP4, 23SP5, 23SP6, 23SP7, 23SP8, and 23SP9, and at 18 to 22 feet below grade as evidenced by the VOC results of 23SP10. Visual evidence of petroleum impacted soil were identified in the shallow soil (23SP3 (2.5-5')), at and above the water table from approximately 8 to 18 feet below grade as evidenced by the soil identified in the locations of 23SP3, 23SP4, and 23SP6 through 23SP10, and in the deeper saturated soil from approximately 20 to 27.5 feet below grade in the locations of 23SP3, 23SP4, 23SP6, 23SP7, and 23SP10. No VOCs, SVOCs, 1,4-dioxane, Pesticides, PCBs, or PFAS compounds were detected at concentrations exceeding their respective standards in the deepest endpoint samples collected from 23SP1 (22.5-25'), 23SP2 (27.5-30'), 23SP3 (25-30'), 23SP4 (27.5-30'), 23SP5 (25-27.5'), 23SP6 (22.5-25'), 27.5-30'), 23SP8 (25-27.5'), 23SP9 (25-27.5'), and 23SP10 (25-27.5'). As discussed below, elevated concentrations of petroleum related VOCs were identified at concentrations exceeding their respective NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1 Ambient Water Quality Standards (AWQS) in the groundwater samples collected all monitoring wells with the exception of 23MW8. Monitoring wells were installed within their corresponding soil boring location (e.g., 23MW1 was installed in the same location as 23SP1). Based upon the petroleum related compounds being identified in the soils of within the water table, it is likely that this contamination is related to the former presence of petroleum impacted soil that was removed from the Site.

Additionally, compounds related to the presence of historic fill materials were identified in the soil throughout the Site from surface to approximately 22 feet below grade as evidenced by the SVOC results. Furthermore, the detections of pesticides, metals, and PFAS compounds detected within the soil samples are likely attributed to the presence of historic fill material opposed to an on-Site source. A pesticide compound was detected in the shallow soil in the northwestern portion of the Site in the location of 23SP3. Metal compounds were detected at

various depths throughout the Site ranging from 0 to 2.5 feet below grade in the locations of 23SP2, 23SP3, 23SP5, 23SP6, 23SP7, 23SP9, to 23SP10 to 27.5 to 30 feet in the location of 23SP4. PFAS compounds were detected in the shallow soils in the northwestern (23SP1) and western (23SP3 and 23SP5) portions of the site and at a depth of 8 to 12 feet below grade in the western portion of the Site in the location of 23SP3. **Figures 9A** through **9D** show the location and post the values for soil/fill that exceed the 6NYCRR Part 375-6.8 Track 2 Soil Cleanup Objectives.

5.3 Groundwater Chemistry

Groundwater samples collected during this RI were compared to the NYSDEC Division of Water Technical and Operation Guidance Series (TOGS) 1.1 Ambient Water Quality Standards (AWQS).

No Pesticide, PCB, or 1,4-Dioxane compounds were detected exceeding their respective TOGS 1.1 AWQS in any groundwater sample.

Petroleum related VOCs including 1,2,4-trichlorobenzene (max of 880 ug/L in 23MW2), 1,3,5-trimethylbenzene (max of 260 ug/L in 23MW2), benzene (max of 760 ug/L in 23MW2), ethyl benzene (max of 1,200 ug/L in 23MW2), isopropyl benzene (max of 86 ug/L in 23MW2), n-butylbenzene (max of 46 ug/L in 23MW2), n-propyl benzene (max of 230 ug/L in 23MW2), o-xylene (max of 40 ug/L in 23MW2), p-isopropyl toluene (7.8 ug/L in 23MW5), sec-butylbenzene (max of 16 ug/L in 23MW2), toluene (max of 150 ug/L in 23MW2), and xylenes, total (max of 380 ug/L in 23MW2) were detected at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS.

Semi volatile organic compounds (SVOCs) including benzo(a)anthracene (0.080 ug/L in 23MW10), bis(2-ethylhexyl)phthalate (26.30 ug/L in 23MW4), chrysene (0.090 ug/L in 23MW10), and naphthalene (max of 75.30 ug/L in 23MW5) were detected at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS.

Undissolved metals including arsenic (40.80 ug/L in 23MW9), lead (max of 112 ug/L in 23MW1), magnesium (max of 50,300 ug/L in 23MW9), manganese (max of 1,340 ug/L in 23MW6), mercury (max of 1.20 ug/L in 23MW7), and sodium (max. of 227,000 ug/L in 23MW10) were detected at concentrations exceeding their respective NYSDEC TOGS 1.1

AWQS. Dissolved metals including magnesium (max of 47,800 ug/L in 23MW9), manganese (max of 1,340 ug/L in 23MW6), and sodium (max of 294,000 ug/L in 23MW10) were detected at concentrations exceeding their respective NYSDEC TOGS 1.1 AWQS. Additionally, cyanide, total (max of 2,200 ug/L in 23MW8) was detected at a concentration exceeding its NYSDEC TOGS 1.1 AWQS.

The PFAS compounds Perfluorooctanesulfonic acid (PFOS, max of 31.70 ng/L in 23MW1) and Perfluorooctanoic acid (PFOA, max of 22.40 ng/L in 23MW7) were detected at concentrations exceeding their respective NYSDEC PFAS Remedial Program Water April 2023 standards. Additionally, the compounds ADONA, HFPO-DA (Gen-X), Perfluoro-n-butanoic acid (PFBA), Perfluorobutanesulfonic acid (PFBS), Perfluorodecanoic acid (PFDA), Perfluoroheptanoic acid (PFHpA), Perfluorohexanesulfonic acid (PFHxS), Perfluorohexanoic acid (PFHxA), PFBA, Perfluorononanoic acid (PFNA), and Perfluoropentanoic acid (PFPeA) were detected in multiple groundwater samples at concentrations greater than their respective Method Detection Limits (MDLs), however there are no NYSDEC PFAS Remedial Program Water April 2023 standards listed for these compounds.

As discussed above, the NYSDEC requested that the SVOC naphthalene be compared to the PGSCO soil standard based on the detection of naphthalene in 23MW-2 and 23MW-5 at concentrations exceeding tis NYSDEC TOGS AWQS. However, naphthalene was not detected in any of the soil samples at concentrations exceeding its UUSCO, RRSCO, or PGSCO Standards. Based on the absence of soil exceedances for naphthalene, the soil at the Site is not considered to represent a source.

Furthermore, based on the soil and groundwater analytical results, PAHs and metals detected in the soil and groundwater samples appear to be consistent with the presence of historic fill materials at the Site opposed to an on-site source.

One VOC, chloroform (7.90 ug/L) was detected at a concentration exceeding its NYSDEC TOGS AWQS in one field blank sample collected on November 17, 2023. No PFAS compounds were detected in any of the field blank samples at concentrations exceeding their respective standards.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site. A summary table of data for chemical analyses performed on

groundwater samples is included in **Tables 3A (VOCs), 3B (SVOCs), 3C (Pesticides), 3D (Metals), 3E (PCBs),** and **3F (PFAS)**. Exceedance of applicable groundwater standards are shown. **Figures 10A** and **10B** show the location and post the values for groundwater that exceed the New York State Ambient Water Quality Standards.

5.4 Soil Vapor Chemistry

Soil vapor results indicated low levels of petroleum related compounds and elevated levels of chlorinated VOCs (CVOCs) within the soil vapor and ambient air samples.

The petroleum compounds 1,2,4-trimethylbenzene (max of 51 ug/m3 in 23SV5), 1,3,5-trimethylbenzene (max of 40 ug/m3 in 23SV6), benzene (max of 6 ug/m3 in 23SV5), cyclohexane (max of 92 ug/m3 in 23SV6), ethyl benzene (max of 54 ug/m3 in 23SV6), o-xylene (max of 21 ug/m3 in 23SV6), p- & m-xylenes (max of 52 ug/m3 in 23SV6), and toluene (max of 18 ug/m3 in 23SV5) were detected within the soil vapor samples. Additionally, the petroleum compounds benzene (0.39 ug/m3), p- & m-xylenes (0.74 ug/m3), and toluene (0.55 ug/m3) were detected in the outdoor air sample (OA-1). Low levels of BTEX (benzene, toluene, ethylbenzene, and xylenes) were detected in the soil vapor across the Site and off-Site. The greatest concentration of BTEX was 143 ug/m3 in 23SV6 located in the sidewalk to the west of the Site.

CVOCs including carbon tetrachloride (max of 0.470 ug/m3 in 23SV3), tetrachloroethylene (max of 17 ug/m3 in 23SV6), and trichloroethylene (0.49 ug/m3 in 23SV5) were detected within the soil vapor samples. One CVOC, carbon tetrachloride was detected in the outdoor air sample (OA-1: 0.24 ug/m3). Based upon the concentrations detected, no further action is required for the soil vapor conditions Site.

Data collected during the RI is sufficient to delineate the distribution of contaminants in soil vapor at the Site. A summary table of data for chemical analyses performed on soil vapor samples is included in **Table 4**. **Figures 11A**, **11B**, and **11C** show the locations and post the values for sub-slab soil vapor (**Figure 11A**), ambient air (**Figure 11B**), and soil vapor samples (**Figure 11C**) with detected concentrations.

6.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

A Qualitative Human Health Exposure Assessment (QHHEA) was performed to determine whether the Site poses an existing or future health hazard to the Site's exposed or potentially exposed population. The sampling data from the Remedial Investigation (RI) performed at the Site were evaluated to determine whether there is any health risk by characterizing the exposure setting, identifying exposure pathways, and evaluating contaminant fate and transport. The QHHEA was prepared in accordance with Appendix 3B and Section 3.3(c)4 of the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref. 1). The five elements of an exposure pathway are: (1) a contaminant source; (2) contaminant release and transport mechanisms; (3) a point of exposure; (4) a route of exposure; and (5) a receptor population. An exposure pathway is considered complete when all five elements of an exposure pathway are documented. A potential exposure pathway exists when any one or more of the five elements comprising an exposure pathway cannot be documented. An exposure pathway may be eliminated from further evaluation when any one of the five elements comprising an exposure pathway has not existed in the past, currently does not exist, and will never exist in the future.

Contaminants of Concern

The Remedial Investigation Report (RIR) provides background information and analytical detections in soil, soil vapor, and/or groundwater at this Site. The Contaminants of Concern, along with their media, were discussed in the above summary sections and were compared to their respective standard or guidance value.

Media of Concern

Soil – Based upon the results from the Remedial Investigation for the Site, the laboratory data indicates that soil is a media of concern due to elevated levels of VOCs at concentrations above their respective Unrestricted Use Soil Cleanup Objectives (UUSCOs), Protection of Groundwater SCOs (PGSCOs), and/or Restricted Residential Use SCOs (RRSCOs) and SVOCs and metals above their UUSCOs and/or UUSCOs and RRSCOs within urban fill material. Currently, the Site contains a vacant lot and therefore, there is a potential for dermal contact through touching or inhalation contact through dust creation. These compounds are summarized on **Tables 2A** through **Table 2F** and depicted on **Figures 9A** through **9D**.

Groundwater – Based upon the results from the Remedial Investigation performed at the Site, groundwater is contaminated with VOCs, which may contribute to soil contamination at the Site. The groundwater additionally appears to be impacted with SVOCs and metals consistent with urban fill material and PFAS compounds. The groundwater in the area is not potable, and drinking water is obtained from an off-Site source. Additionally, based upon the soil vapor results, the impacted groundwater does not appear to be impacting upon soil vapor. The Site is currently a vacant lot, and groundwater is present at approximately 10 feet below grade. During future remedial excavation activities, the groundwater may be exposed and there is a potential for dermal contact through touching or inhalation. These exceedances are summarized on **Tables 3A** through **3F** and depicted on **Figures 10A** and **10B**.

Soil Vapor – Based upon the results from the Remedial Investigation for the Site, the laboratory data indicates that soil vapor is a low level of concern since concentrations of the NYSDOH guidance compounds were not detected at concentrations requiring action. These detections are summarized in **Table 4** and depicted on **Figures 11A**, **11B**, and **11C**.

Contamination Source

- Soil contamination at the Site includes the presence of petroleum related volatile organic compounds (VOCs) which were detected at concentrations exceeding their respective Unrestricted Use Soil Cleanup Objectives (SCOs), Protection of Groundwater SCOs (PGSCOs), and/or Restricted Residential SCOs (RRSCOs). Petroleum related compounds were detected at elevated concentrations in the saturated soil from at least 12 to 22 feet below grade and visual and olfactory evidence of petroleum impacted soil were identified in the unsaturated and saturated soil from at least 8 to 27.5 feet below grade.
- Soil contamination at the Site is also present within contaminated historic fill material, which contains metals and SVOCs above UUSCOs and RRSCOs. The historic fill material was consistently encountered across from the surface to approximately 16 to 17 feet below grade and extends to deep depths in certain locations down to 22.5 feet below grade. SVOCs were additionally detected at concentrations above the UUSCO at depths from the surface (0 to 2.5-feet) to 18 to 22 feet below grade and Metals were additionally detected at concentrations above the UUSCO at depths from the surface (0 to 2.5-feet) to 27.5 to 30-feet below grade. As the Site will be capped an asphalt paved parking lot,

remaining soil contamination related to the presence of historic fill material is not considered to represent a concern.

- Soil contamination at the Site additionally includes pesticides above Unrestricted Use SCOs in the northeastern portion of the Site at the surface (0-2.5 feet) and PFAS compounds were additionally detected at concentrations above UUSCOs at 0 to 2.5-feet below grade in the western portion of the Site (23SP1, 23SP3, and 23SP5) and at 8 to 12 feet below grade (23SP3) in the western portion of the Site. As the Site will be capped an asphalt paved parking lot, remaining soil contamination related to the presence of pesticide and PFAS compounds is not considered to represent a concern.
- The VOC groundwater exceedances and the petroleum-related VOCs present in the soil are likely due to the historical use of the Site as a gasoline station. The Remedial Action for the Site will be further outlined in the separate Remedial Action Work Plan (RAWP).

Potential Sensitive Receptors

Land Use of the Site and Neighboring Properties - Current and Future

The Site currently contains a vacant lot. The area immediately surrounding the Site is residential/commercial with the exception of the adjacent education building to the east (501 Gerard Avenue / 110 East 149th Street). The adjacent property to the east is a former New York City Office of Environmental Remediation (NYC OER) Site (VCP # 19CVCP023X); a Notice of Satisfaction and a Notice of Completion for the Site are on file dated May 12, 2021. The remediation of the adjacent property to the east included the excavation and removal of approximately 5,011.46 tons of non-hazardous urban fill material and approximately 32.08-tons of mercury-contaminated soil, the removal and registration of two underground storage tanks (USTs), the collection and analysis of post-excavation endpoint samples, the installation of a vapor barrier at the cellar/elevator pit walls and sub-slabs on the first floor sub-slab, and the installation and operation of an active sub-slab depressurization system (SSDS) at the property.

The proposed future use of the Site includes the development of an asphalt-covered parking lot.

The land use in the surrounding area is anticipated to remain the same.

Based on the information presented above, potential sensitive receptors to Site-related potential contaminants of concern were identified. This information is summarized in the table below:

Environmental Media & Exposure Route	Human Exposure Assessment
Direct contact with surface soils (and incidental ingestion)	• Under current conditions, people are not coming into contact with surface soil at the Site because the Site is vacant (no buildings or Site operations). Access to the Site is restricted by perimeter fencing that is locked, prohibiting public access. • During the remedial activities, construction workers could come in contact with surface soils if they are involved with ground-intrusive activities and while moving equipment from the staging area. However, with the implementation of the HASP and air monitoring stations (as described in the proposed CAMP) will limit the exposures to workers. Additionally, construction workers will be wearing PPE, including but not limited to gloves, while handling soil and water. • During the remedial activities, there is a potential exposure pathway from any dust emanating from the Site to off-site structures, pedestrians, visitors, cyclists, construction workers, and adult and child residents. However, once the remediation commences, off-site dust exposure will be minimized by taking proper precautions, including dust suppression to keep particulates down, washing truck tires, and requiring workers to implement the CAMP and the HASP designed to prevent off-site impacts. If the CAMP stations within the vicinity of the adjacent properties indicate that contamination is migrating off-site, monitoring will take place within the occupied structures. If VOC or particulate concentrations inside the adjacent structures persist, on-site work will stop and corrective measures will be implemented to abate emissions. Prior to remediation, there is no evidence of on-site soil vapor contamination migrating to the indoor air of the adjacent buildings. • Once the site is developed/capped, the on-site potential sensitive receptors would include maintenance staff, community residents, workers, customers, and employees. Post remediation, all contaminated soil material will have been removed. In addition, if any residual soil contamination is left in place, a demarcation barrier along with two feet of clean fill will prevent dermal contact with the soil. The land use in the surrounding area is anticipated to remain the same.
Ingestion of groundwater	• Groundwater at the Site is not being used for drinking water as the area is served by the public water supply provided by the New York City Department of Environmental Protection (NYC DEP). • There are no known private domestic water supply wells in the area of the Site. • Injection or dermal contact with the water is not expected since

Environmental Media & Exposure Route	Human Exposure Assessment
	groundwater is below grade and the site is secured with a fence and a padlock.
Direct contact with groundwater	• On-site workers can come into contact with groundwater if they complete ground-intrusive activities at the Site. However, exposure to groundwater will be limited, and construction workers will be wearing PPE, including gloves.
Inhalation of air (exposures related to soil vapor intrusion)	• Under current conditions, inhalation of vapor or particulates is unlikely as the Site is vacant, gated, and locked with no access to the public. • Under future conditions, inhalation of vapor or particulates is unlikely as the Site will be developed with an open-air asphalt-paved parking lot. • Low levels of petroleum compounds and chlorinated solvents were detected in the soil vapor at the site. Under current conditions, based on the concentrations of petroleum compounds and chlorinated solvents detected, off-site soil vapor intrusion is unlikely. Additionally, the Site is covered and secured, so there are currently no direct off-site exposure conditions for adjacent receptors • Following site remediation, potential exposure pathways from soil gas emanating from VOCs in soil vapor should be reduced due to the source removal effort. Building development is not currently planned for the Site; therefore, on-site vapor intrusion is not considered a risk.

On-Site Receptors

The Site currently contains a vacant lot surrounded by fencing. There are no on-Site potential sensitive receptors such as stationary employees, customers, or tenants. The fencing around the Site prevents direct exposure pathways to people entering the Site. The Site is closed to the public and has been secured with fencing and padlocks.

The proposed development of the Site includes the development of an asphalt paved parking lot. There will be a potential exposure pathway from contaminated soil and groundwater to construction workers as these workers could potentially ingest, inhale or have dermal contact with any exposed impacted fill or soil or groundwater. During the remediation and redevelopment of the Site, the on-Site potential sensitive receptors include construction workers and community residents. However, with implementation of the CAMP and HASP, exposure to workers and community residents will be minimized.

Off-Site Receptors

Potential off-site receptors within a 0.25-mile radius of the Site include: adult and child residents, commercial and construction workers, pedestrians, trespassers, and cyclists, based on the following:

1. Commercial Businesses (up to 0.25 mile) – existing and future
2. Residential Buildings (up to 0.25 mile) – existing and future
3. Pedestrians, Trespassers, Cyclists (up to .25 mile) – existing and future
4. Day Care Centers (up to 0.25 mile) – existing and future
5. Church Building (up to 0.25 mile) – existing and future
6. Library (up to 0.25 mile) – existing and future
7. Subway Station (up to 0.25 mile) – existing and future
8. Schools (up to 0.25 mile) – existing and future

Exposure Route

An exposure route is the mechanism by which a receptor comes into contact with a chemical. Three potential primary routes exist by which chemicals can enter the body:

- Ingestion of water, fill or soil;
- Inhalation of vapors and particulates; and
- Dermal contact with water, fill, soil, or building materials.

Exposure Pathways

This evaluation consists of the following components: contaminant source; contaminant release and transport mechanism; point of exposure; route of exposure; and receptor population.

On-Site (existing)

The Site currently contains a vacant lot. The Site is secured and locked from the public; therefore, preventing exposures. Ingestion of groundwater, fill, or soil is not expected at this time. Inhalation of vapor or particulates is currently limited due to work not being currently conducted at the Site. Dermal contact with groundwater is not expected at this time as it is below grade. Dermal contact with soil and fill is minimal as work is not being conducted at this Site.

Off-Site (existing)

There does not appear to be any existing off-site exposure pathways as the soil is currently in place and not planned for transport or relocation at this time. Ingestion or dermal contact with groundwater is not expected as it is below grade. Inhalation of soil vapor is unlikely as the low

concentrations of VOCs detected in the soil vapor is unlikely to impact the neighboring properties. Dust inhalation is also possible once remedial activities commence.

On-Site (future)

During the future remediation of the Site, soil removal activities and soil and groundwater remediation activities may result in dermal contact, inhalation, and or ingestion by on-site workers. Exposures will be minimized by taking proper precautions, including using dust suppression to keep particulates down, implementing the CAMP and the HASP, and by wearing PPE including but not limited to gloves when handling groundwater and soil.

After remediation of the Site, potential exposure pathways from soil gas emanating from VOCs in soil vapor should be reduced due to the development of the Site with an asphalt-covered parking lot, which will eliminate the ingestion or dermal contact of water, fill, or soil vapor exposure route.

Off-Site (future)

Without remediation, there is a potential exposure pathway from soil gas emanating from any residual contamination to continue to enter into any potential future on-Site buildings through basement floors or lower wall openings and/or cracks. The NYSDOH Action Compounds carbon tetrachloride, tetrachloroethylene, and trichloroethylene were detected at low concentrations in soil vapor probes 23SV3, 23SV4, 23SV5, and 23SV6.

There will also be a potential exposure pathway from any dust emanating from the Site to off-Site pedestrians, visitors, cyclists, construction workers, and adults and children.

However, the planned site remediation will mitigate off-site exposures through the implementation of the CAMP, dust control measures, and HASP. The potential off-site dust exposures should not occur during the remediation and will no longer exist after remediation. As a result of the soil, groundwater, and soil vapor remediation, the petroleum impacted source soils will be removed. Additionally, with the development of the Site with an asphalt-covered parking lot, the potential for off-site soil vapor will be mitigated.

Exposure Assessment Conclusions and Recommendations

Based upon this analysis, there will be a potential exposure pathway from contaminated soil and groundwater to construction workers as these workers could potentially ingest, inhale, or have

dermal contact with any exposed impacted fill, soils, or groundwater. In addition, during remediation, there is a potential exposure pathway from any dust emanating from the Site to off-site pedestrians, visitors, cyclists, construction workers, and adult and child residents.

Without remediation, if there was development on the Site, there would be a potential exposure pathway (from the potential off-gassing of residual organic vapors in the soil) to residents, maintenance staff, community residents utilizing the community facilities, and workers through future cracks or openings in the foundations of a potential building and if there were landscaped areas, there would also be a potential exposure pathway from dermal contact, inhalation, or ingestion of surface soil/fill by adult and child residents and trespassers.

Based on the results of the QHHEA, the impacted soil and groundwater need to be remediated to ensure that the potential exposure pathways identified do not become complete. This will be further discussed in a separately submitted Remedial Action Work Plan (RAWP).

7.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the sampling performed during this RI identified levels of petroleum related volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), metals, and PFAS compounds in the soil and groundwater and petroleum related and chlorinated VOCs (CVOCs) in the soil vapor and outdoor air. The results of the RI are further discussed below:

- Petroleum related compounds (including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethyl benzene, n-butylbenzene, n-propyl benzene, toluene, and total xylenes) were detected at elevated concentrations in the saturated soil from at least 12 to 22 feet below grade and visual and olfactory evidence of petroleum-impacted soils were identified in the unsaturated and saturated soil at depths ranging from 8 to 27.5 ft bgs throughout the Site and gray and black staining was identified in the shallow soil (2.5-5 ft bgs) in the location of 23SP5.
- Petroleum impacted soil was visually identified within the auto service pit and drainage pit identified on the southern portion during the December 1, 2023, subsurface investigation. Additionally, some soil with a petroleum odor was identified in the southwest corner of the service pit. Petroleum impacted soil identified during the Subsurface Investigation was separately stored on plastic sheeting at the Site and then was placed into two (2) 55-gallon drums. The drums were removed from the Site on January 12, 2024 and were properly disposed of at the Republic Environmental Systems, LLC facility in Hatfield, Pennsylvania. Waste disposal manifests and analytical data for all drums removed from the Site are provided in **Appendix C**.
- The groundwater is impacted with petroleum-VOCs throughout the Site (23MW1 through 23MW7) and in the locations upgradient (23MW9 and 23MW10) of the Site. The groundwater on and off-site appear to be contaminated with petroleum-related VOCs, including 1,2,4-trichlorobenzene, 1,3,5-trimethylbenzene, benzene, ethyl benzene, isopropyl benzene, n-butylbenzene, n-Propyl benzene, o-Xylene, p-isopropyl toluene, sec-butylbenzene, toluene, and xylenes, total, which may be contributing to soil contamination at the Site.

The concentrations of petroleum VOCs present in the soil and groundwater are most likely related to the historical operation of the site as a gasoline station.

- Levels of historic fill material consisting of brick, concrete, asphalt, coal ash, brown, dark brown, black, and gray fine to medium grained sand and clay was identified across the Site to approximately 16 to 17 ft bgs and extends to 22.5 ft bgs in some locations. Depending on the location, the historic fill materials contain one or more metals (including arsenic, chromium hexavalent, chromium trivalent, copper, lead, nickel, selenium, silver, and mercury), pesticides (4,4'-DDT), PFAS (PFOS), and semi volatile organic compounds (SVOCs, specifically polycyclic aromatic hydrocarbons (PAHs)) at concentrations exceeding their respective UUSCOs or UUSCOs and RRSCOs. The groundwater additionally appears to be impacted with SVOCs, metals, and PFAS compounds. It does not appear that there is a PFAS source on-Site as PFAS compounds were identified in the groundwater at all sampling locations including on-Site, upgradient of the Site, cross-gradient of the Site, and downgradient of the Site.
- Low levels of CVOCs (including carbon tetrachloride (max. of 0.47 ug/m3 in 22SV3), tetrachloroethylene (PCE, max. of 17 ug/m3 in 23SV6), and trichloroethylene (TCE, max. of 0.49 ug/m3 in OA-1)) and low to moderate levels of petroleum related VOCs (including 1,2,4-trimethylbenzene (max. of 51 ug/m3 in 23SV6), 1,3,5-trimethylbenzene (max. of 40 ug/m3 in 23SV6), benzene (max. of 6 ug/m3 in 23SV5), cyclohexane (max. of 92 ug/m3 in 23SV6), ethyl benzene (max. of 54 ug/m3 in 23SV6), o-xylene (max. of 21 ug/m3 in 23SV6), p- & m-xylenes (max. of 52 ug/m3 in 23SV6), and toluene (max. of 18 ug/m3 in 23SV5) were identified in the soil vapor samples and the outdoor air sample. Additionally, levels of BTEX compounds were detected in all soil vapor samples and in the outdoor air sample installed during the RI. The highest BTEX concentration was detected in 23SV6 located to the west of the Site
- The VOC chloroform (7.90 ug/L) was detected at a concentration exceeding its NYSDEC TOGS AWQS in one field blank sample collected on November 17, 2023.

8.0 REFERENCES

1. *Remedial Investigation Work Plan, NYSDEC BCP Site No. C203159, 100 East 149th Street Site, 100 East 149th Street, Bronx, New York, Prepared by Touchstone Environmental Geology, P.C., of Centereach, New York, dated May 2023.*
2. *New York State Department of Environmental Conservation Division of Environmental Remediation Technical Guide 10, issued on May 3, 2010.*
3. *New York State Department of Environmental Conservation Division of Environmental Remediation 6 NYCRR PART 375 Environmental Remediation Programs, effective December 14, 2006.*
4. *Sampling, Analysis and Assessment of Polyfluoroalkyl Substances (PFAS) April 2023*
5. *Public Health Law Section 225, 10 NYCRR Subpart 5-1.52 Table 3 Maximum Contaminant Levels (MCLs) for PFOS, PFOA and 1,4-dioxane.*

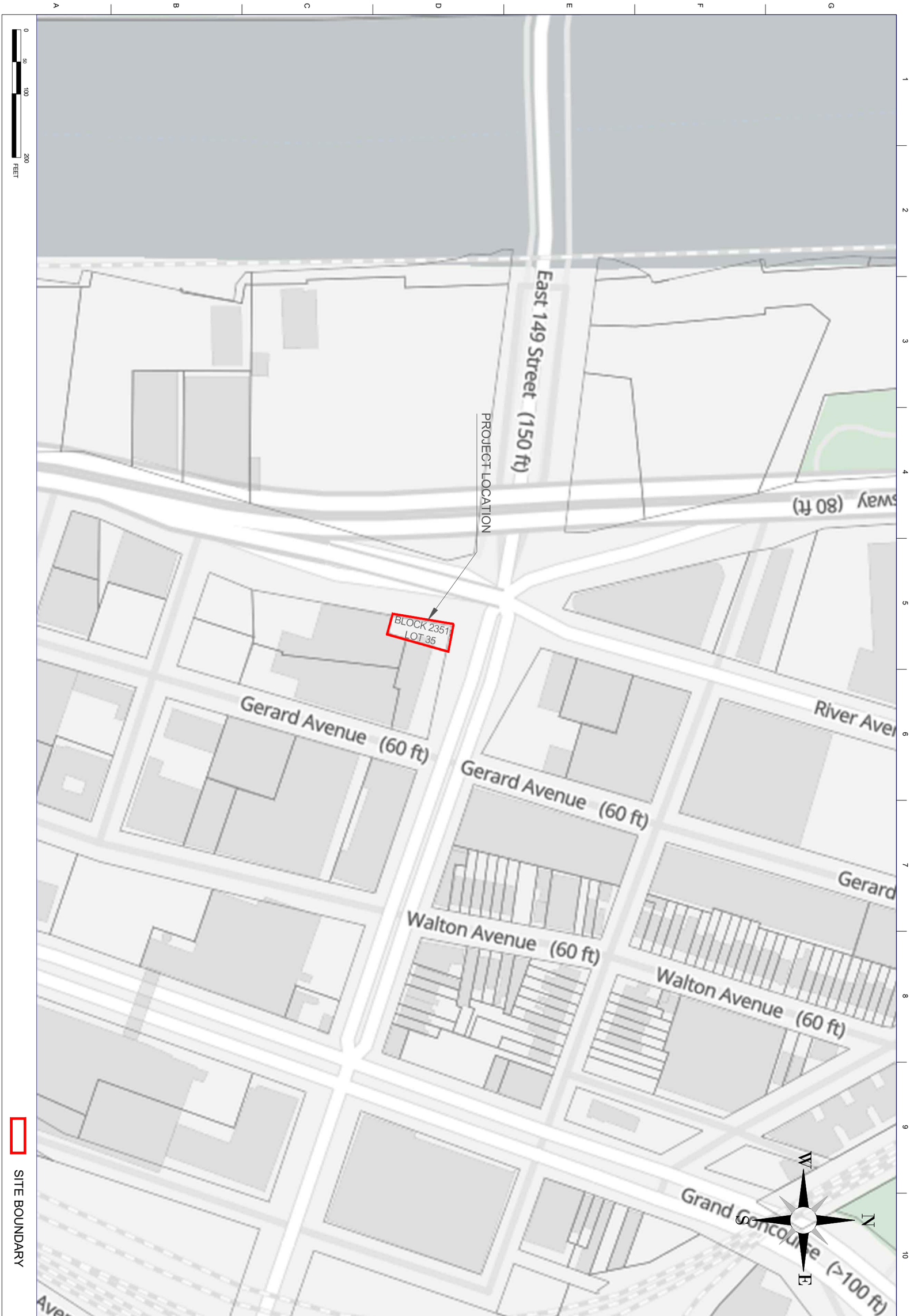


FIGURE ID
1

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE 1
SITE LOCATION MAP

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REVIEWED BY: GC	SOLICITATION NO.: .
APROBED BY: RA	CONTRACT NO.: .
SUBMITTED BY: .	
SIZE: ANSI B	

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EAST 149th STREET

EXISTENT CONCRETE SIDEWALK

N

W E

S

46.69' (DEED)

SITE BOUNDARY

RIVER AVENUE

EXISTENT CONCRETE SIDEWALK

99.73' (DEED)

BLOCK 2351 LOT 35

ADJACENT EDUCATIONAL BUILDING

100.00' (DEED)

APPROXIMATE FORMER DRAIN PIT LOCATION AND LOCATION OF PETROLEUM IMPACTED SOIL

APPROXIMATE BILLBOARD STRUCTURE LOCATION

APPROXIMATE AREA OF SITE INVESTIGATION

APPROXIMATE FORMER LOCATION OF PETROLEUM IMPACTED SOIL

34.18' (DEED)

ADJACENT RESIDENTIAL BUILDING

0 12.5 25 50 Feet

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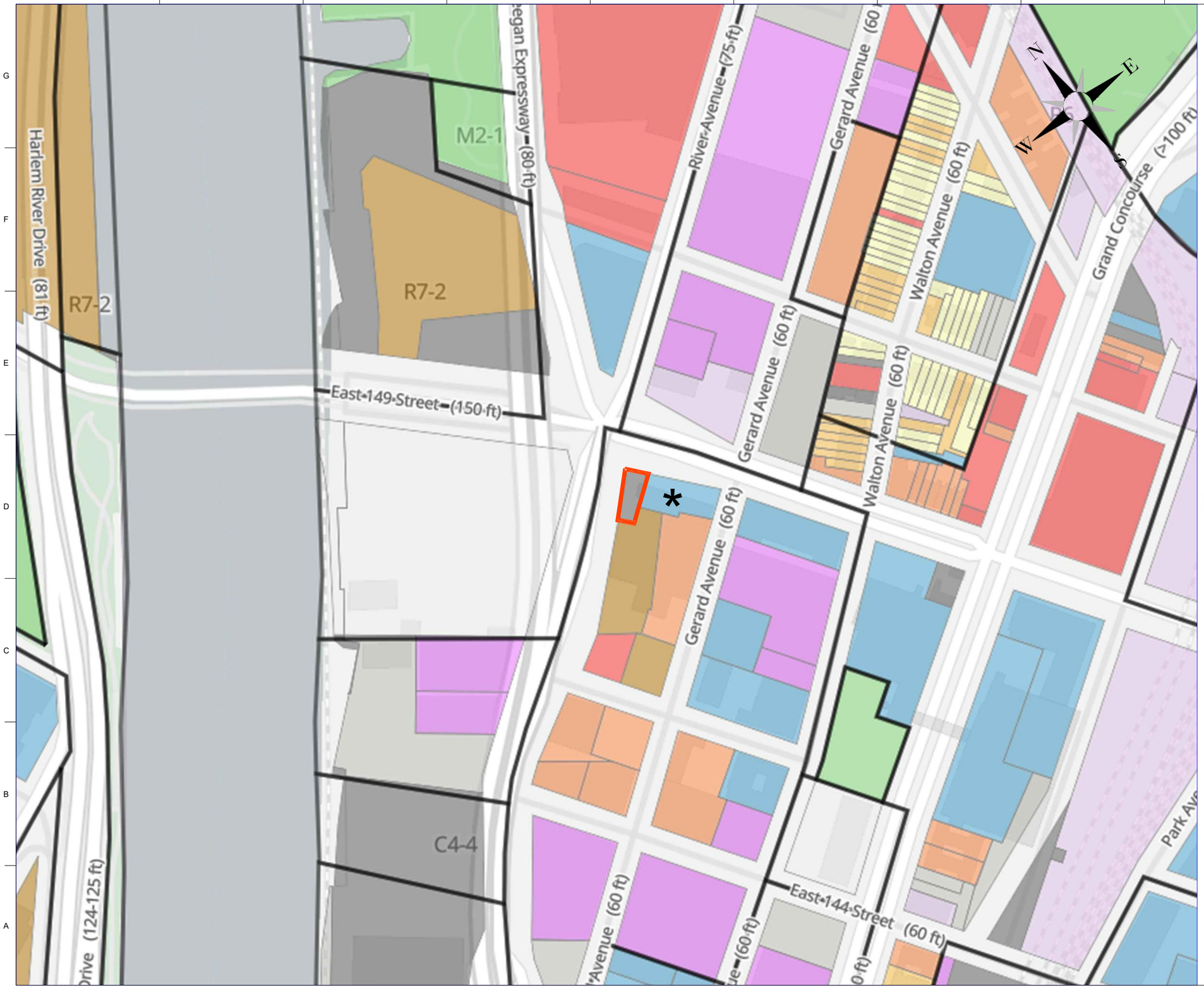
CONTRACT NO.: -

SIZE: ANSI B

FIGURE 2
SITE BOUNDARY MAP

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
2



LEGEND
One & Two Family Buildings
Multi-Family Walk-Up Buildings
Multi-Family Elevator Buildings
Mixed Residential & Commercial Buildings
Commercial & Office Buildings
Industrial & Manufacturing
Transportation & Utility
Public Facilities & Institutions
Open Space & Outdoor Recreation
Parking Facilities
Vacant Land
Other

SITE BOUNDARY

* ADJACENT EDUCATIONAL BUILDING SENSITIVE RECEPTOR SITE

0 50 100 200 FEET

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FIGURE 3
SURROUNDING LAND USE MAP

BCP Site No. C203159
100 East 149th Street
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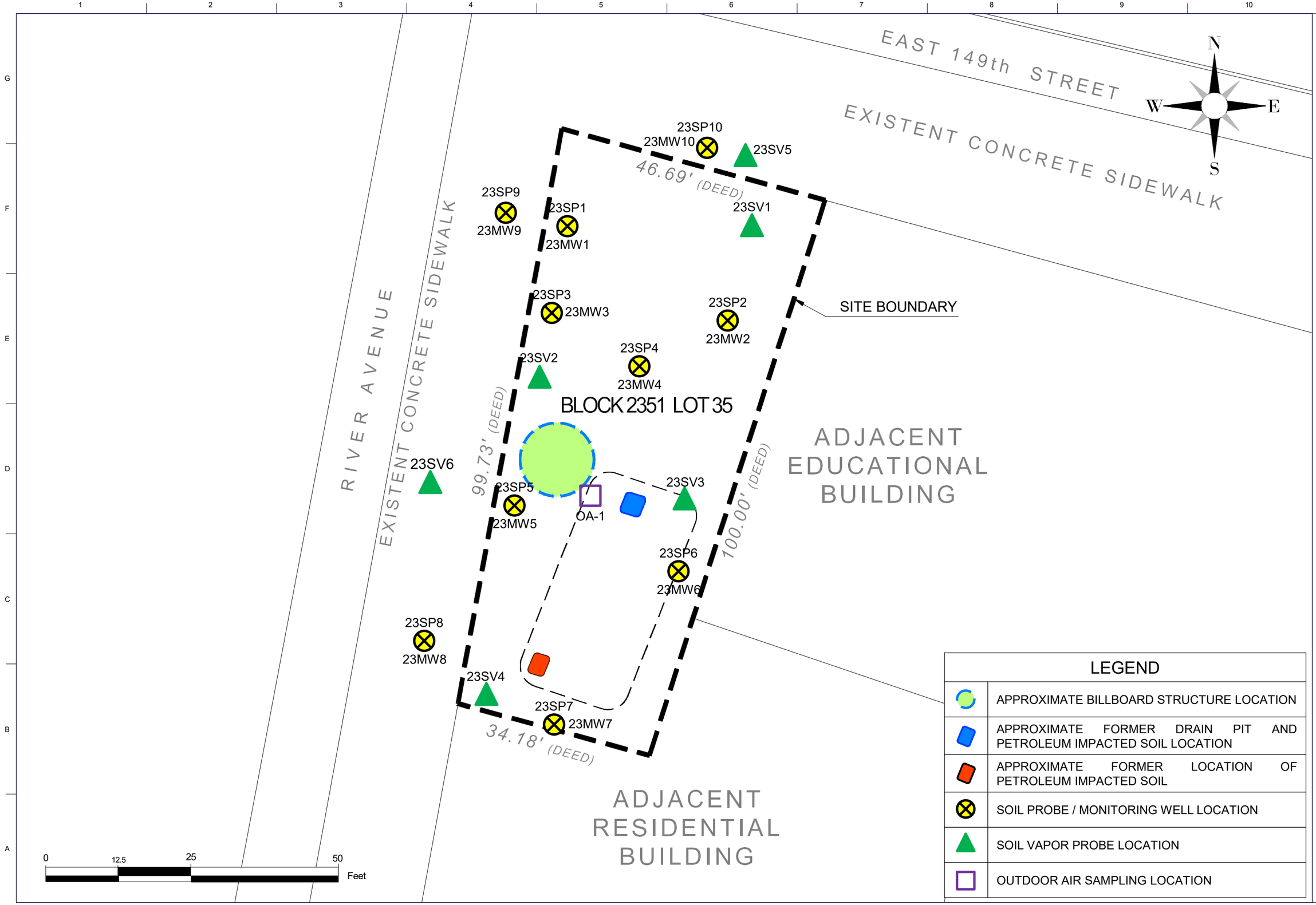
BLOCK 2351, Lot 35

FIGURE ID
3



LEGEND

	APPROXIMATE BILLBOARD STRUCTURE LOCATION
	APPROXIMATE FORMER DRAIN PIT AND PETROLEUM IMPACTED SOIL LOCATION
	APPROXIMATE FORMER LOCATION OF PETROLEUM IMPACTED SOIL
	SOIL PROBE / MONITORING WELL LOCATION
	SOIL VAPOR PROBE LOCATION
	OUTDOOR AIR SAMPLING LOCATION

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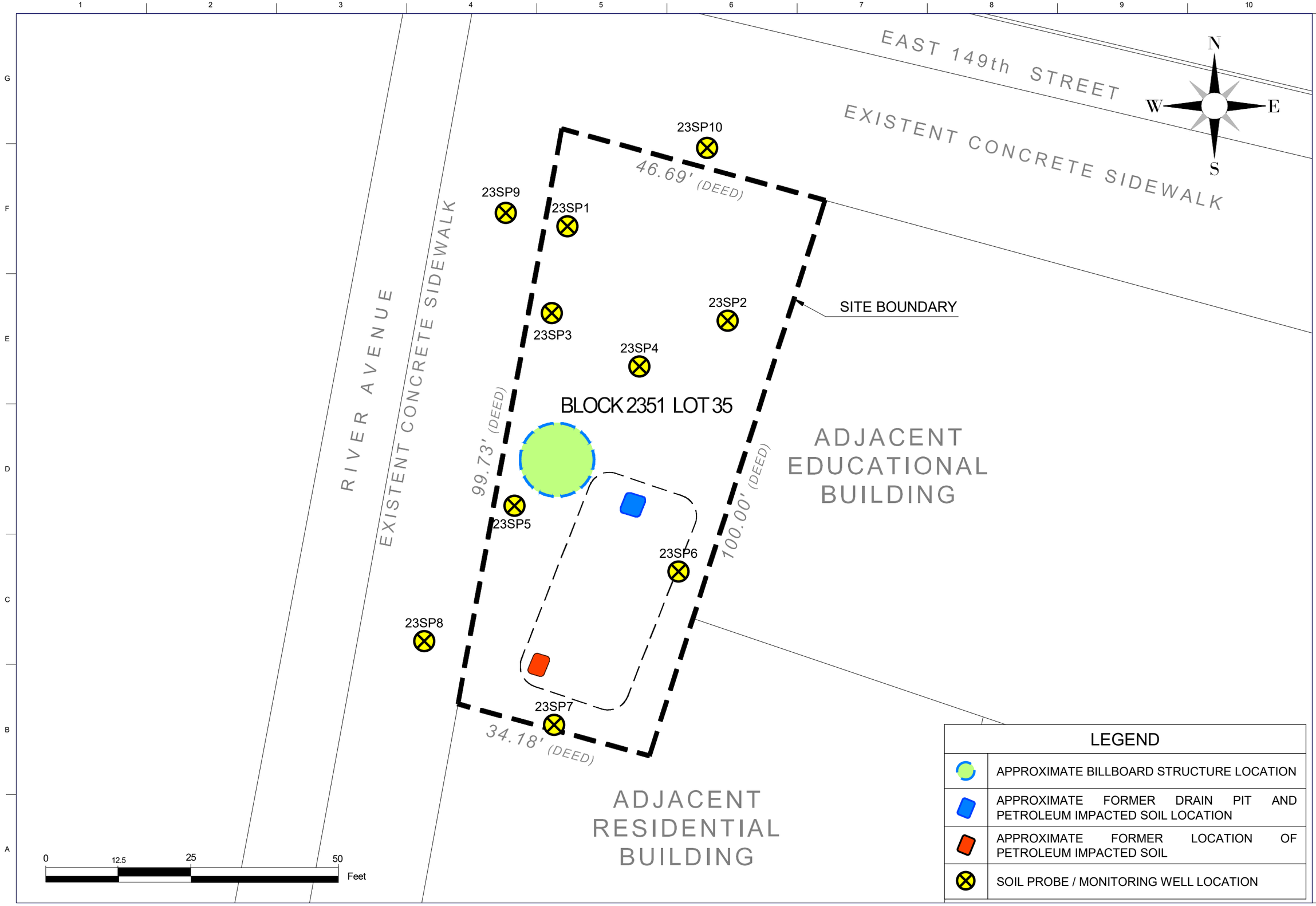
FIGURE 4
SAMPLING PLAN

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
4



LEGEND

	APPROXIMATE BILLBOARD STRUCTURE LOCATION
	APPROXIMATE FORMER DRAIN PIT AND PETROLEUM IMPACTED SOIL LOCATION
	APPROXIMATE FORMER LOCATION OF PETROLEUM IMPACTED SOIL
⊗	SOIL PROBE / MONITORING WELL LOCATION

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FIGURE 5
SOIL PROBE LOCATION MAP

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
5

EAST 149th STREET

EXISTENT CONCRETE SIDEWALK

N

W E

S

23MW10

46.69' (DEED)

23MW9

23MW1

23MW3

23MW2

SITE BOUNDARY

23MW4

BLOCK 2351 LOT 35

99.73' (DEED)

100.00' (DEED)

23MW5

23MW6

23MW8

23MW7

34.18' (DEED)

ADJACENT EDUCATIONAL BUILDING

ADJACENT RESIDENTIAL BUILDING

RIVER AVENUE

EXISTENT CONCRETE SIDEWALK

0 12.5 25 50 Feet

LEGEND

⊗	SOIL PROBE / MONITORING WELL LOCATION

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FIGURE 6
MONITORING WELL LOCATION MAP

BCP Site No. C203159
100 East 149th Street
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BLOCK 2351, Lot 35

FIGURE ID
6

April 24, 2024	
Monitoring Well ID	Groundwater Elevation (ft)
23MW1	3.83
23MW2	3.91
23MW3	3.80
23MW4	3.81
23MW5	4.00
23MW6	3.85
23MW7	4.04
23MW8	3.85
23MW9	3.57
23MW10	3.81

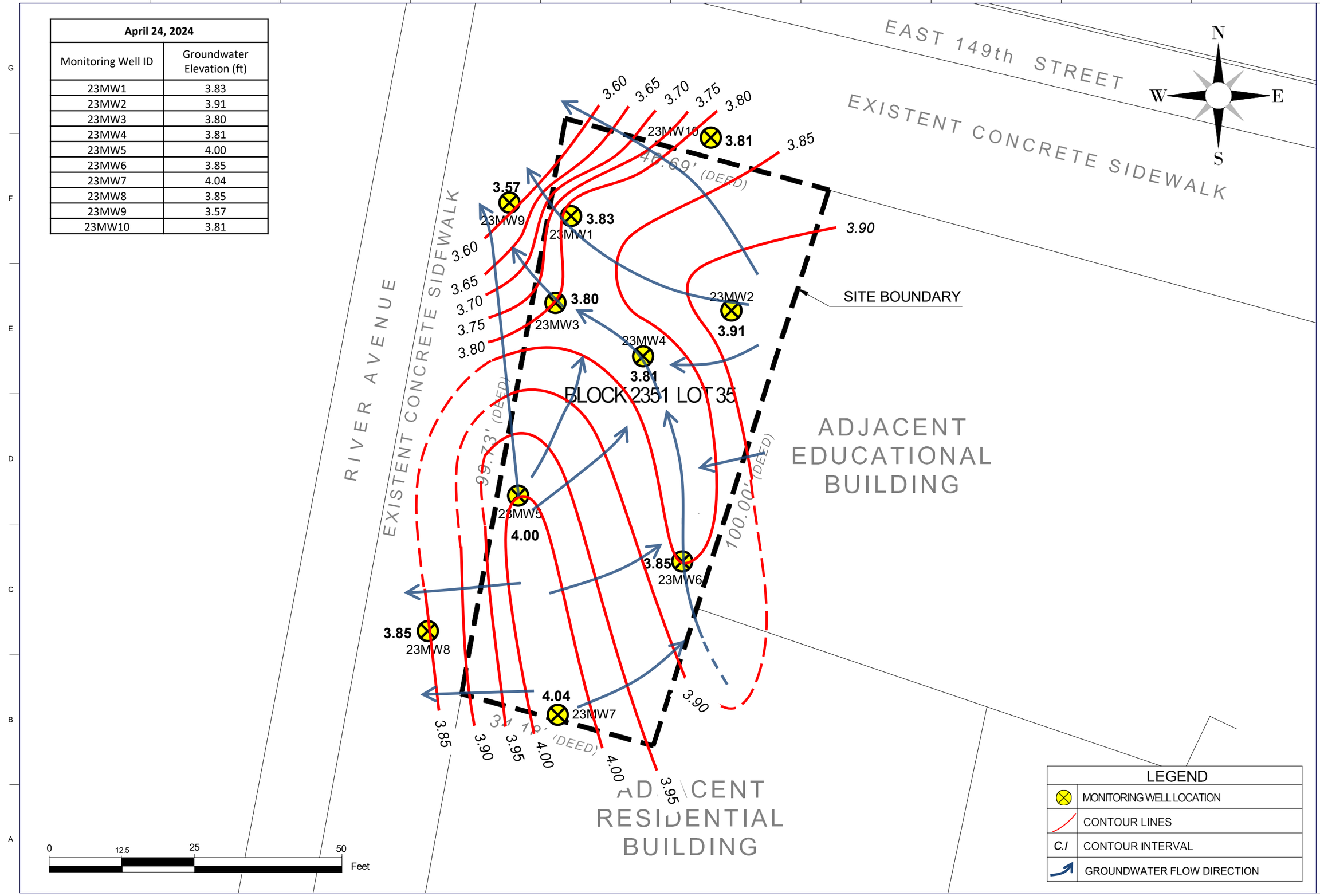

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FIGURE 7
GROUNDWATER FLOW DIAGRAM

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
7

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FIGURE 8
SOIL VAPOR AND AMBIENT AIR SAMPLING PLAN

BCP Site No. C203159
100 East 149th Street
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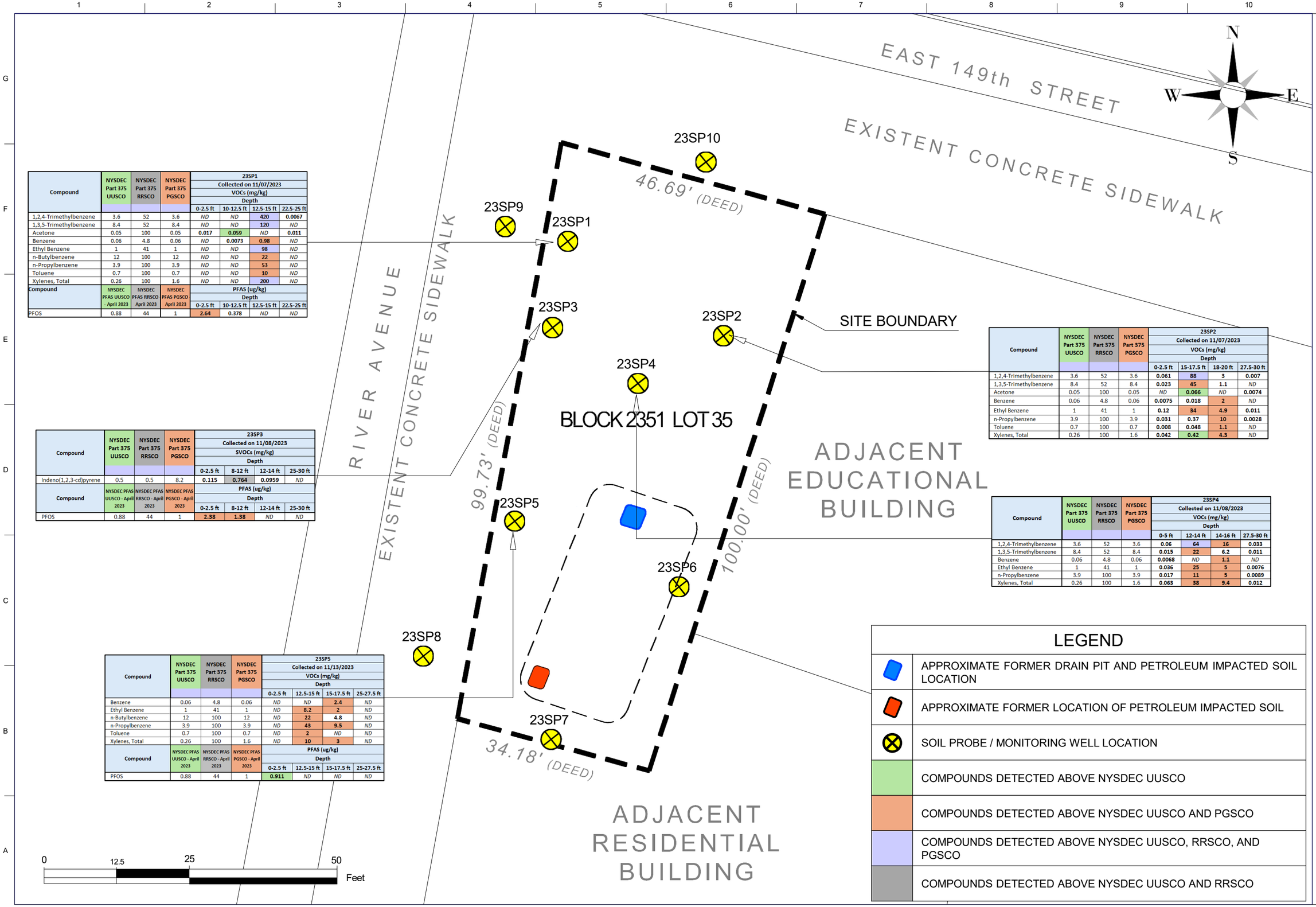
BLOCK 2351, Lot 35

FIGURE ID
8



Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP1 Collected on 11/07/2023 VOCs (mg/kg) Depth 0-2.5 ft	10-12.5 ft	12.5-15 ft	22.5-25 ft
1,2,4-Trimethylbenzene	3.6	52	3.6	ND	ND	420	0.0067
1,3,5-Trimethylbenzene	8.4	52	8.4	ND	ND	120	ND
Acetone	0.05	100	0.05	0.017	0.059	ND	0.011
Benzene	0.06	4.8	0.06	ND	0.0073	0.98	ND
Ethyl Benzene	1	41	1	ND	ND	98	ND
n-Butylbenzene	12	100	12	ND	ND	22	ND
n-Propylbenzene	3.9	100	3.9	ND	ND	53	ND
Toluene	0.7	100	0.7	ND	ND	10	ND
Xylenes, Total	0.26	100	1.6	ND	ND	200	ND
Compound	**NYSDEC PFAS UUSCO - April 2023**	**NYSDEC PFAS RRSCO April 2023**	**NYSDEC PFAS PGSCO April 2023**	**PFAS (ug/kg) Depth 0-2.5 ft**	**10-12.5 ft**	**12.5-15 ft**	**22.5-25 ft**
PFOS	0.88	44	1	2.64	0.378	ND	ND

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP3 Collected on 11/08/2023 SVOCs (mg/kg) Depth 0-2.5 ft	8-12 ft	12-14 ft	25-30 ft
Indeno(1,2,3-cd)pyrene	0.5	0.5	8.2	0.115	0.764	0.0959	ND
Compound	**NYSDEC PFAS UUSCO - April 2023**	**NYSDEC PFAS RRSCO - April 2023**	**NYSDEC PFAS PGSCO - April 2023**	**PFAS (ug/kg) Depth 0-2.5 ft**	**8-12 ft**	**12-14 ft**	**25-30 ft**
PFOS	0.88	44	1	2.38	1.38	ND	ND

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP5 Collected on 11/13/2023 VOCs (mg/kg) Depth 0-2.5 ft	12.5-15 ft	15-17.5 ft	25-27.5 ft
Benzene	0.06	4.8	0.06	ND	ND	2.4	ND
Ethyl Benzene	1	41	1	ND	8.2	2	ND
n-Butylbenzene	12	100	12	ND	22	4.8	ND
n-Propylbenzene	3.9	100	3.9	ND	43	9.5	ND
Toluene	0.7	100	0.7	ND	2	ND	ND
Xylenes, Total	0.26	100	1.6	ND	10	3	ND
Compound	**NYSDEC PFAS UUSCO - April 2023**	**NYSDEC PFAS RRSCO - April 2023**	**NYSDEC PFAS PGSCO - April 2023**	**PFAS (ug/kg) Depth 0-2.5 ft**	**12.5-15 ft**	**15-17.5 ft**	**25-27.5 ft**
PFOS	0.88	44	1	0.911	ND	ND	ND

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP2 Collected on 11/07/2023 VOCs (mg/kg) Depth 0-2.5 ft	15-17.5 ft	18-20 ft	27.5-30 ft
1,2,4-Trimethylbenzene	3.6	52	3.6	0.061	88	3	0.007
1,3,5-Trimethylbenzene	8.4	52	8.4	0.023	45	1.1	ND
Acetone	0.05	100	0.05	ND	0.066	ND	0.0074
Benzene	0.06	4.8	0.06	0.0075	0.018	2	ND
Ethyl Benzene	1	41	1	0.12	34	4.9	0.011
n-Propylbenzene	3.9	100	3.9	0.031	0.37	10	0.0028
Toluene	0.7	100	0.7	0.008	0.048	1.1	ND
Xylenes, Total	0.26	100	1.6	0.042	0.42	4.3	ND

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP4 Collected on 11/08/2023 VOCs (mg/kg) Depth 0-5 ft	12-14 ft	14-16 ft	27.5-30 ft
1,2,4-Trimethylbenzene	3.6	52	3.6	0.06	64	16	0.033
1,3,5-Trimethylbenzene	8.4	52	8.4	0.015	22	6.2	0.011
Benzene	0.06	4.8	0.06	0.0068	ND	1.1	ND
Ethyl Benzene	1	41	1	0.036	25	5	0.0076
n-Propylbenzene	3.9	100	3.9	0.017	11	5	0.0089
Xylenes, Total	0.26	100	1.6	0.063	38	9.4	0.012

LEGEND

	APPROXIMATE FORMER DRAIN PIT AND PETROLEUM IMPACTED SOIL LOCATION
	APPROXIMATE FORMER LOCATION OF PETROLEUM IMPACTED SOIL
	SOIL PROBE / MONITORING WELL LOCATION
	COMPOUNDS DETECTED ABOVE NYSDEC UUSCO
	COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND PGSCO
	COMPOUNDS DETECTED ABOVE NYSDEC UUSCO, RRSCO, AND PGSCO
	COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND RRSCO

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FIGURE 9A
COMPOUNDS DETECTED ABOVE UUSCO, RRSCO, AND PGSCO STANDARDS IN SOIL SAMPLES

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
9A

EAST 149th STREET

EXISTENT CONCRETE SIDEWALK

N

W E

S

23SP10

46.69' (DEED)

23SP9

23SP1

23SP3

23SP2

SITE BOUNDARY

23SP4

BLOCK 2351 LOT 35

99.73' (DEED)

100.00' (DEED)

ADJACENT EDUCATIONAL BUILDING

23SP5

23SP6

23SP8

23SP7

34.18' (DEED)

ADJACENT RESIDENTIAL BUILDING

RIVER AVENUE

EXISTENT CONCRETE SIDEWALK

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP9 Collected on 11/06/2023 VOCs (mg/kg) Depth 0-2.5 ft	10-12.5 ft	12.5-15 ft	25-27.5 ft
n-Propylbenzene	3.9	100	3.9	*ND*	**0.0048**	**7**	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP10 Collected on 11/06/2023 VOCs (mg/kg) Depth 0-2.5 ft	12.5-15 ft	18-22 ft	25-27.5 ft
Acetone	0.05	100	0.05	**0.017**	**0.31**	*ND*	**0.01**
Xylenes, Total	0.26	100	1.6	**0.25**	**0.14**	**0.72**	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP8 Collected on 11/06/2023 VOCs (mg/kg) Depth 0-2.5 ft	10-12.5 ft	14-16 ft	25-27.5 ft
Benzene	0.06	4.8	0.06	**0.0077**	*ND*	**0.33**	**0.0035**
Ethyl Benzene	1	41	1	**0.15**	**0.022**	**3.6**	**0.011**
n-Propylbenzene	3.9	100	3.9	**0.062**	**0.0076**	**16**	*ND*
Xylenes, Total	0.26	100	1.6	**0.24**	**0.044**	**4.2**	**0.0095**

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP6 Collected on 11/13/2023 VOCs (mg/kg) Depth 0-2.5 ft	12.5-15 ft	15-17.5 ft	22.5-25 ft
Benzene	0.06	4.8	0.06	*ND*	*ND*	**2.6**	*ND*
n-Propylbenzene	3.9	100	3.9	*ND*	**6**	**15**	*ND*
Toluene	0.7	100	0.7	*ND*	*ND*	**2.1**	*ND*
Xylenes, Total	0.26	100	1.6	*ND*	*ND*	**2.8**	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	NYSDEC Part 375 PGSCO	23SP7 Collected on 11/09/2023 VOCs (mg/kg) Depth 0-2.5 ft	12-14 ft	14-18 ft	27.5-30 ft
1,2,4-Trimethylbenzene	3.6	52	3.6	*ND*	**12**	**1.6**	*ND*
1,3,5-Trimethylbenzene	8.4	52	8.4	*ND*	**21**	**15**	*ND*
Ethyl Benzene	1	41	1	*ND*	**5.8**	**7.8**	*ND*
n-Propylbenzene	3.9	100	3.9	*ND*	**11**	**10**	*ND*

0 12.5 25 50 Feet

LEGEND

- APPROXIMATE FORMER DRAIN PIT AND PETROLEUM IMPACTED SOIL LOCATION
- APPROXIMATE FORMER LOCATION OF PETROLEUM IMPACTED SOIL
- SOIL PROBE / MONITORING WELL LOCATION
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND PGSCO
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND RRSCO

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FIGURE 9B
COMPOUNDS DETECTED ABOVE UUSCO, RRSCO, AND PGSCO STANDARDS IN SOIL SAMPLES

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
9B

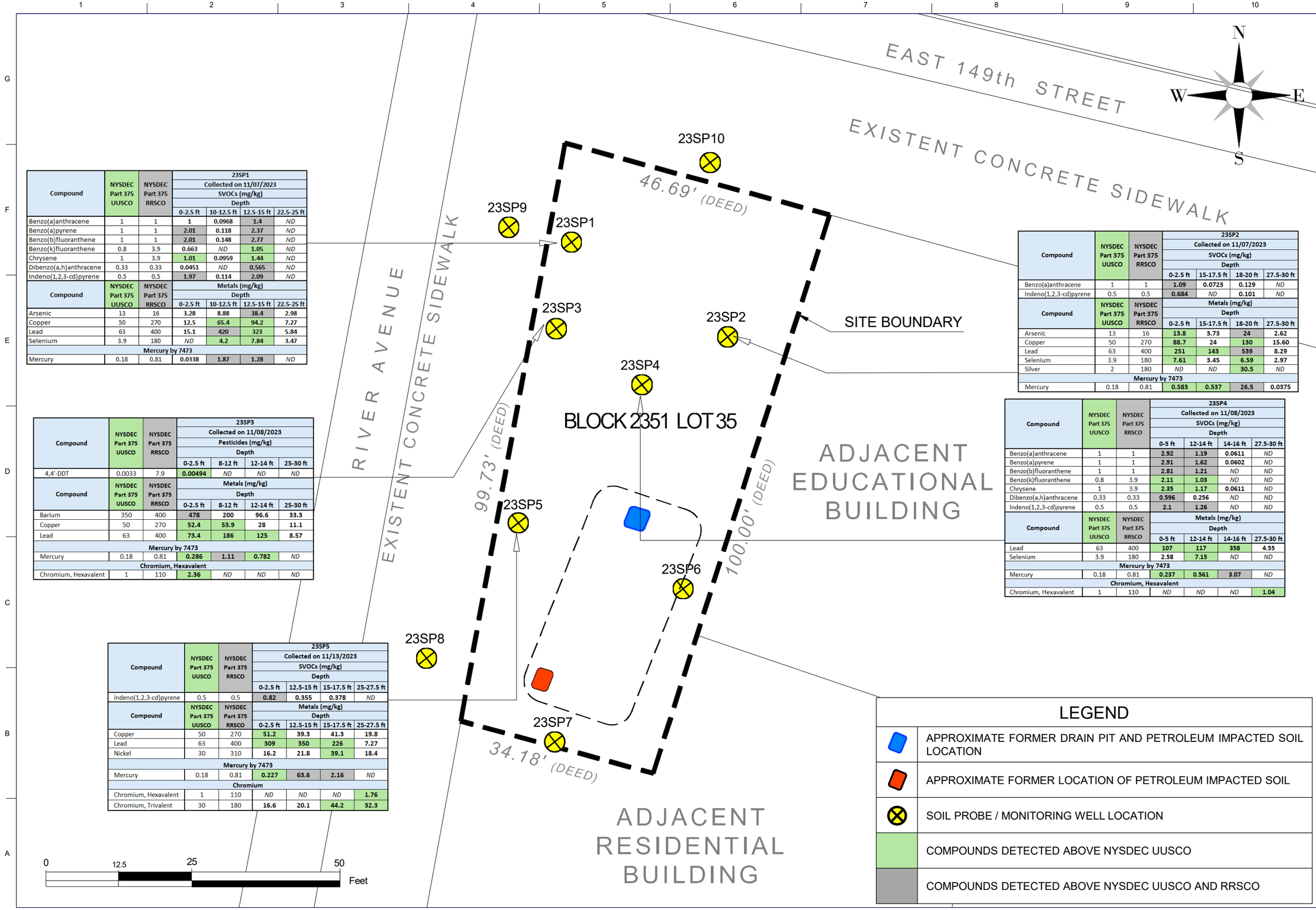
Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP1 Collected on 11/07/2023 SVOCs (mg/kg) Depth 0-2.5 ft	10-12.5 ft	12.5-15 ft	22.5-25 ft
Benzo(a)anthracene	1	1	**1**	**0.0968**	**1.4**	*ND*
Benzo(a)pyrene	1	1	**2.01**	**0.118**	**2.37**	*ND*
Benzo(b)fluoranthene	1	1	**2.01**	**0.148**	**2.77**	*ND*
Benzo(k)fluoranthene	0.8	3.9	**0.663**	*ND*	**1.05**	*ND*
Chrysene	1	3.9	**1.01**	**0.0959**	**1.44**	*ND*
Dibenzo(a,h)anthracene	0.33	0.33	**0.0451**	*ND*	**0.565**	*ND*
Indeno(1,2,3-cd)pyrene	0.5	0.5	**1.97**	**0.114**	**2.09**	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**10-12.5 ft**	**12.5-15 ft**	**22.5-25 ft**
Arsenic	13	16	**3.28**	**8.88**	**38.4**	**2.98**
Copper	50	270	**12.5**	**65.4**	**94.2**	**7.27**
Lead	63	400	**15.1**	**420**	**323**	**5.84**
Selenium	3.9	180	*ND*	**4.2**	**7.84**	**3.47**
Mercury by 7473						
Mercury	0.18	0.81	**0.0338**	**1.87**	**1.28**	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP3 Collected on 11/08/2023 Pesticides (mg/kg) Depth 0-2.5 ft	8-12 ft	12-14 ft	25-30 ft
4,4'-DDT	0.0033	7.9	**0.00494**	*ND*	*ND*	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**8-12 ft**	**12-14 ft**	**25-30 ft**
Barium	350	400	**478**	**200**	**96.6**	**33.3**
Copper	50	270	**52.4**	**53.9**	**28**	**11.1**
Lead	63	400	**73.4**	**186**	**125**	**8.57**
Mercury by 7473						
Mercury	0.18	0.81	**0.286**	**1.11**	**0.782**	*ND*
Chromium, Hexavalent						
Chromium, Hexavalent	1	110	**2.36**	*ND*	*ND*	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP5 Collected on 11/13/2023 SVOCs (mg/kg) Depth 0-2.5 ft	12.5-15 ft	15-17.5 ft	25-27.5 ft
Indeno(1,2,3-cd)pyrene	0.5	0.5	**0.82**	**0.355**	**0.378**	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**12.5-15 ft**	**15-17.5 ft**	**25-27.5 ft**
Copper	50	270	**51.2**	**39.3**	**41.3**	**19.8**
Lead	63	400	**309**	**350**	**226**	**7.27**
Nickel	30	310	**16.2**	**21.8**	**39.1**	**18.4**
Mercury by 7473						
Mercury	0.18	0.81	**0.227**	**63.6**	**2.16**	*ND*
Chromium						
Chromium, Hexavalent	1	110	*ND*	*ND*	*ND*	**1.76**
Chromium, Trivalent	30	180	**16.6**	**20.1**	**44.2**	**32.3**

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP2 Collected on 11/07/2023 SVOCs (mg/kg) Depth 0-2.5 ft	15-17.5 ft	18-20 ft	27.5-30 ft
Benzo(a)anthracene	1	1	**1.09**	**0.0723**	**0.129**	*ND*
Indeno(1,2,3-cd)pyrene	0.5	0.5	**0.684**	*ND*	**0.101**	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**15-17.5 ft**	**18-20 ft**	**27.5-30 ft**
Arsenic	13	16	**13.8**	**3.73**	**24**	**2.62**
Copper	50	270	**88.7**	**24**	**130**	**15.60**
Lead	63	400	**251**	**143**	**539**	**8.29**
Selenium	3.9	180	**7.61**	**3.45**	**6.59**	**2.97**
Silver	2	180	*ND*	*ND*	**30.5**	*ND*
Mercury by 7473						
Mercury	0.18	0.81	**0.583**	**0.537**	**26.5**	**0.0375**

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP4 Collected on 11/08/2023 SVOCs (mg/kg) Depth 0-5 ft	12-14 ft	14-16 ft	27.5-30 ft
Benzo(a)anthracene	1	1	**2.92**	**1.19**	**0.0611**	*ND*
Benzo(a)pyrene	1	1	**2.91**	**1.62**	**0.0602**	*ND*
Benzo(b)fluoranthene	1	1	**2.81**	**1.21**	*ND*	*ND*
Benzo(k)fluoranthene	0.8	3.9	**2.11**	**1.03**	*ND*	*ND*
Chrysene	1	3.9	**2.35**	**1.17**	**0.0611**	*ND*
Dibenzo(a,h)anthracene	0.33	0.33	**0.596**	**0.256**	*ND*	*ND*
Indeno(1,2,3-cd)pyrene	0.5	0.5	**2.1**	**1.26**	*ND*	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-5 ft**	**12-14 ft**	**14-16 ft**	**27.5-30 ft**
Lead	63	400	**107**	**117**	**358**	**4.55**
Selenium	3.9	180	**2.58**	**7.15**	*ND*	*ND*
Mercury by 7473						
Mercury	0.18	0.81	**0.237**	**0.561**	**3.07**	*ND*
Chromium, Hexavalent						
Chromium, Hexavalent	1	110	*ND*	*ND*	*ND*	**1.04**



LEGEND

	APPROXIMATE FORMER DRAIN PIT AND PETROLEUM IMPACTED SOIL LOCATION
	APPROXIMATE FORMER LOCATION OF PETROLEUM IMPACTED SOIL
	SOIL PROBE / MONITORING WELL LOCATION
	COMPOUNDS DETECTED ABOVE NYSDEC UUSCO
	COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND RRSCO

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FIGURE 9C
COMPOUNDS DETECTED ABOVE UUSCO AND RRSCO STANDARDS IN SOIL SAMPLES

BCP Site No. C203159
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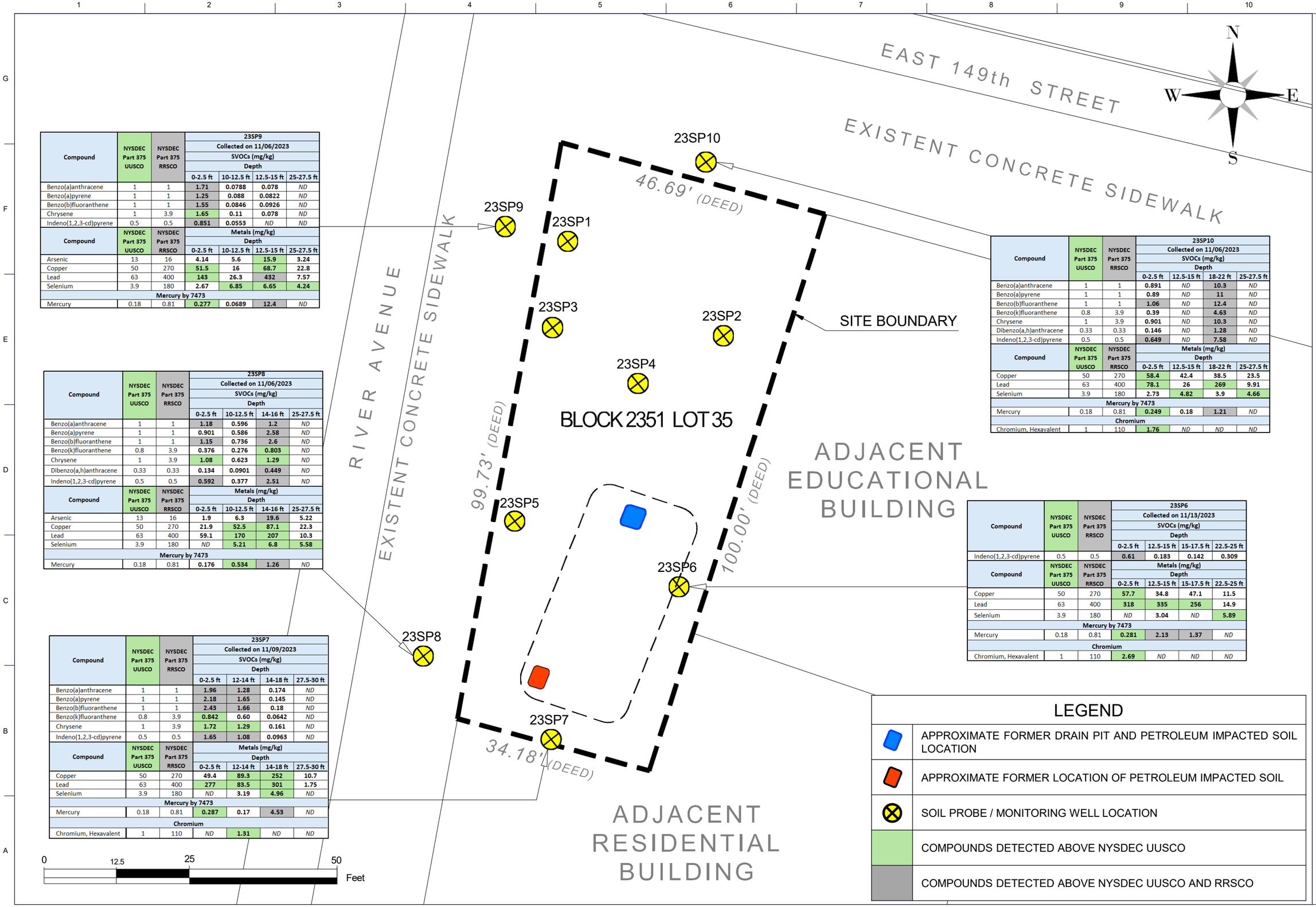
BLOCK 2351, Lot 35

FIGURE ID
9A



Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP9 Collected on 11/06/2023 SVOCs (mg/kg) Depth 0-2.5 ft	10-12.5 ft	12.5-15 ft	25-27.5 ft
Benzo(a)anthracene	1	1	**1.71**	**0.0788**	**0.078**	*ND*
Benzo(a)pyrene	1	1	**1.25**	**0.088**	**0.0822**	*ND*
Benzo(b)fluoranthene	1	1	**1.55**	**0.0846**	**0.0926**	*ND*
Chrysene	1	3.9	**1.65**	**0.11**	**0.078**	*ND*
Indeno(1,2,3-cd)pyrene	0.5	0.5	**0.851**	**0.0553**	*ND*	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**10-12.5 ft**	**12.5-15 ft**	**25-27.5 ft**
Arsenic	13	16	**4.14**	**5.6**	**15.9**	**3.24**
Copper	50	270	**51.5**	**16**	**68.7**	**22.8**
Lead	63	400	**143**	**26.3**	**432**	**7.57**
Selenium	3.9	180	**2.67**	**6.85**	**6.65**	**4.24**
Mercury by 7473						
Mercury	0.18	0.81	**0.277**	**0.0689**	**12.4**	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP10 Collected on 11/06/2023 SVOCs (mg/kg) Depth 0-2.5 ft	12.5-15 ft	18-22 ft	25-27.5 ft
Benzo(a)anthracene	1	1	**0.891**	*ND*	**10.3**	*ND*
Benzo(a)pyrene	1	1	**0.89**	*ND*	**11**	*ND*
Benzo(b)fluoranthene	1	1	**1.06**	*ND*	**12.4**	*ND*
Benzo(k)fluoranthene	0.8	3.9	**0.39**	*ND*	**4.63**	*ND*
Chrysene	1	3.9	**0.901**	*ND*	**10.3**	*ND*
Dibenzo(a,h)anthracene	0.33	0.33	**0.146**	*ND*	**1.28**	*ND*
Indeno(1,2,3-cd)pyrene	0.5	0.5	**0.649**	*ND*	**7.58**	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**12.5-15 ft**	**18-22 ft**	**25-27.5 ft**
Copper	50	270	**58.4**	**42.4**	**38.5**	**23.5**
Lead	63	400	**78.1**	**26**	**269**	**9.91**
Selenium	3.9	180	**2.73**	**4.82**	**3.9**	**4.66**
Mercury by 7473						
Mercury	0.18	0.81	**0.249**	**0.18**	**1.21**	*ND*
Chromium						
Chromium, Hexavalent	1	110	**1.76**	*ND*	*ND*	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP8 Collected on 11/06/2023 SVOCs (mg/kg) Depth 0-2.5 ft	10-12.5 ft	14-16 ft	25-27.5 ft
Benzo(a)anthracene	1	1	**1.18**	**0.596**	**1.2**	*ND*
Benzo(a)pyrene	1	1	**0.901**	**0.586**	**2.58**	*ND*
Benzo(b)fluoranthene	1	1	**1.15**	**0.736**	**2.6**	*ND*
Benzo(k)fluoranthene	0.8	3.9	**0.376**	**0.276**	**0.803**	*ND*
Chrysene	1	3.9	**1.08**	**0.623**	**1.29**	*ND*
Dibenzo(a,h)anthracene	0.33	0.33	**0.134**	**0.0901**	**0.449**	*ND*
Indeno(1,2,3-cd)pyrene	0.5	0.5	**0.592**	**0.377**	**2.51**	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**10-12.5 ft**	**14-16 ft**	**25-27.5 ft**
Arsenic	13	16	**1.9**	**6.3**	**19.6**	**5.22**
Copper	50	270	**21.9**	**52.5**	**87.1**	**22.3**
Lead	63	400	**59.1**	**170**	**207**	**10.3**
Selenium	3.9	180	*ND*	**5.21**	**6.8**	**5.58**
Mercury by 7473						
Mercury	0.18	0.81	**0.176**	**0.534**	**1.26**	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP6 Collected on 11/13/2023 SVOCs (mg/kg) Depth 0-2.5 ft	12.5-15 ft	15-17.5 ft	22.5-25 ft
Indeno(1,2,3-cd)pyrene	0.5	0.5	**0.61**	**0.183**	**0.142**	**0.309**
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**12.5-15 ft**	**15-17.5 ft**	**22.5-25 ft**
Copper	50	270	**57.7**	**34.8**	**47.1**	**11.5**
Lead	63	400	**318**	**335**	**256**	**14.9**
Selenium	3.9	180	*ND*	**3.04**	*ND*	**5.89**
Mercury by 7473						
Mercury	0.18	0.81	**0.281**	**2.13**	**1.37**	*ND*
Chromium						
Chromium, Hexavalent	1	110	**2.69**	*ND*	*ND*	*ND*

Compound	NYSDEC Part 375 UUSCO	NYSDEC Part 375 RRSCO	23SP7 Collected on 11/09/2023 SVOCs (mg/kg) Depth 0-2.5 ft	12-14 ft	14-18 ft	27.5-30 ft
Benzo(a)anthracene	1	1	**1.96**	**1.28**	**0.174**	*ND*
Benzo(a)pyrene	1	1	**2.18**	**1.65**	**0.145**	*ND*
Benzo(b)fluoranthene	1	1	**2.43**	**1.66**	**0.18**	*ND*
Benzo(k)fluoranthene	0.8	3.9	**0.842**	**0.60**	**0.0642**	*ND*
Chrysene	1	3.9	**1.72**	**1.29**	**0.161**	*ND*
Indeno(1,2,3-cd)pyrene	0.5	0.5	**1.65**	**1.08**	**0.0963**	*ND*
Compound	**NYSDEC Part 375 UUSCO**	**NYSDEC Part 375 RRSCO**	**Metals (mg/kg) Depth 0-2.5 ft**	**12-14 ft**	**14-18 ft**	**27.5-30 ft**
Copper	50	270	**49.4**	**89.3**	**252**	**10.7**
Lead	63	400	**277**	**83.5**	**301**	**1.75**
Selenium	3.9	180	*ND*	**3.19**	**4.96**	*ND*
Mercury by 7473						
Mercury	0.18	0.81	**0.287**	**0.17**	**4.53**	*ND*
Chromium						
Chromium, Hexavalent	1	110	*ND*	**1.31**	*ND*	*ND*

LEGEND

- APPROXIMATE FORMER DRAIN PIT AND PETROLEUM IMPACTED SOIL LOCATION
- APPROXIMATE FORMER LOCATION OF PETROLEUM IMPACTED SOIL
- SOIL PROBE / MONITORING WELL LOCATION
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO
- COMPOUNDS DETECTED ABOVE NYSDEC UUSCO AND RRSCO

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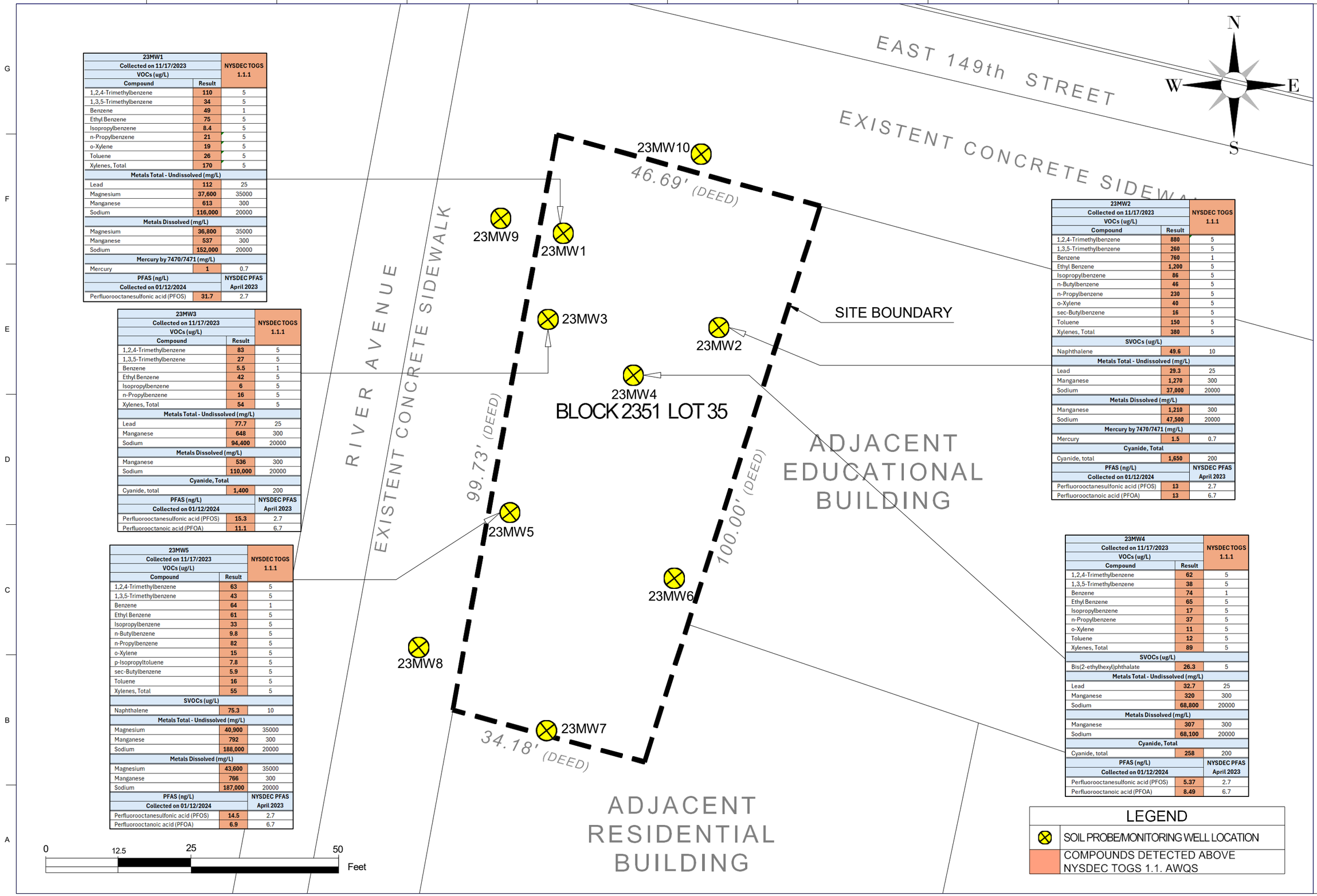
FIGURE 9D
COMPOUNDS DETECTED ABOVE UUSCO AND RRSCO STANDARDS IN SOIL SAMPLES

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
9B



23MW1		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	110	5
1,3,5-Trimethylbenzene	34	5
Benzene	49	1
Ethyl Benzene	75	5
Isopropylbenzene	8.4	5
n-Propylbenzene	21	5
o-Xylene	19	5
Toluene	26	5
Xylenes, Total	170	5
Metals Total - Undissolved (mg/L)		
Lead	112	25
Magnesium	37,600	35000
Manganese	613	300
Sodium	116,000	20000
Metals Dissolved (mg/L)		
Magnesium	36,800	35000
Manganese	537	300
Sodium	152,000	20000
Mercury by 7470/7471 (mg/L)		
Mercury	1	0.7
PFAS (ng/L)		NYSDEC PFAS
Collected on 01/12/2024		April 2023
Perfluorooctanesulfonic acid (PFOS)	31.7	2.7

23MW3		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	83	5
1,3,5-Trimethylbenzene	27	5
Benzene	5.5	1
Ethyl Benzene	42	5
Isopropylbenzene	6	5
n-Propylbenzene	16	5
Xylenes, Total	54	5
Metals Total - Undissolved (mg/L)		
Lead	77.7	25
Manganese	648	300
Sodium	94,400	20000
Metals Dissolved (mg/L)		
Manganese	536	300
Sodium	110,000	20000
Cyanide, Total		
Cyanide, total	1,400	200
PFAS (ng/L)		NYSDEC PFAS
Collected on 01/12/2024		April 2023
Perfluorooctanesulfonic acid (PFOS)	15.3	2.7
Perfluorooctanoic acid (PFOA)	11.1	6.7

23MW5		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	63	5
1,3,5-Trimethylbenzene	43	5
Benzene	64	1
Ethyl Benzene	61	5
Isopropylbenzene	33	5
n-Butylbenzene	9.8	5
n-Propylbenzene	82	5
o-Xylene	15	5
p-Isopropyltoluene	7.8	5
sec-Butylbenzene	5.9	5
Toluene	16	5
Xylenes, Total	55	5
SVOCs (ug/L)		
Naphthalene	75.3	10
Metals Total - Undissolved (mg/L)		
Magnesium	40,900	35000
Manganese	792	300
Sodium	188,000	20000
Metals Dissolved (mg/L)		
Magnesium	43,600	35000
Manganese	766	300
Sodium	187,000	20000
PFAS (ng/L)		NYSDEC PFAS
Collected on 01/12/2024		April 2023
Perfluorooctanesulfonic acid (PFOS)	14.5	2.7
Perfluorooctanoic acid (PFOA)	6.9	6.7

23MW2		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	880	5
1,3,5-Trimethylbenzene	260	5
Benzene	760	1
Ethyl Benzene	1,200	5
Isopropylbenzene	86	5
n-Butylbenzene	46	5
n-Propylbenzene	230	5
o-Xylene	40	5
sec-Butylbenzene	16	5
Toluene	150	5
Xylenes, Total	380	5
SVOCs (ug/L)		
Naphthalene	49.6	10
Metals Total - Undissolved (mg/L)		
Lead	29.3	25
Manganese	1,270	300
Sodium	37,000	20000
Metals Dissolved (mg/L)		
Manganese	1,210	300
Sodium	47,500	20000
Mercury by 7470/7471 (mg/L)		
Mercury	1.5	0.7
Cyanide, Total		
Cyanide, total	1,650	200
PFAS (ng/L)		NYSDEC PFAS
Collected on 01/12/2024		April 2023
Perfluorooctanesulfonic acid (PFOS)	13	2.7
Perfluorooctanoic acid (PFOA)	13	6.7

23MW4		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	62	5
1,3,5-Trimethylbenzene	38	5
Benzene	74	1
Ethyl Benzene	65	5
Isopropylbenzene	17	5
n-Propylbenzene	37	5
o-Xylene	11	5
Toluene	12	5
Xylenes, Total	89	5
SVOCs (ug/L)		
Bis(2-ethylhexyl)phthalate	26.3	5
Metals Total - Undissolved (mg/L)		
Lead	32.7	25
Manganese	320	300
Sodium	68,800	20000
Metals Dissolved (mg/L)		
Manganese	307	300
Sodium	68,100	20000
Cyanide, Total		
Cyanide, total	258	200
PFAS (ng/L)		NYSDEC PFAS
Collected on 01/12/2024		April 2023
Perfluorooctanesulfonic acid (PFOS)	5.37	2.7
Perfluorooctanoic acid (PFOA)	8.49	6.7

LEGEND	
⊗	SOIL PROBE/MONITORING WELL LOCATION
	COMPOUNDS DETECTED ABOVE NYSDEC TOGS 1.1. AWQS

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FIGURE 10A
COMPOUNDS DETECTED ABOVE STANDARDS IN GROUNDWATER SAMPLES

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
10A

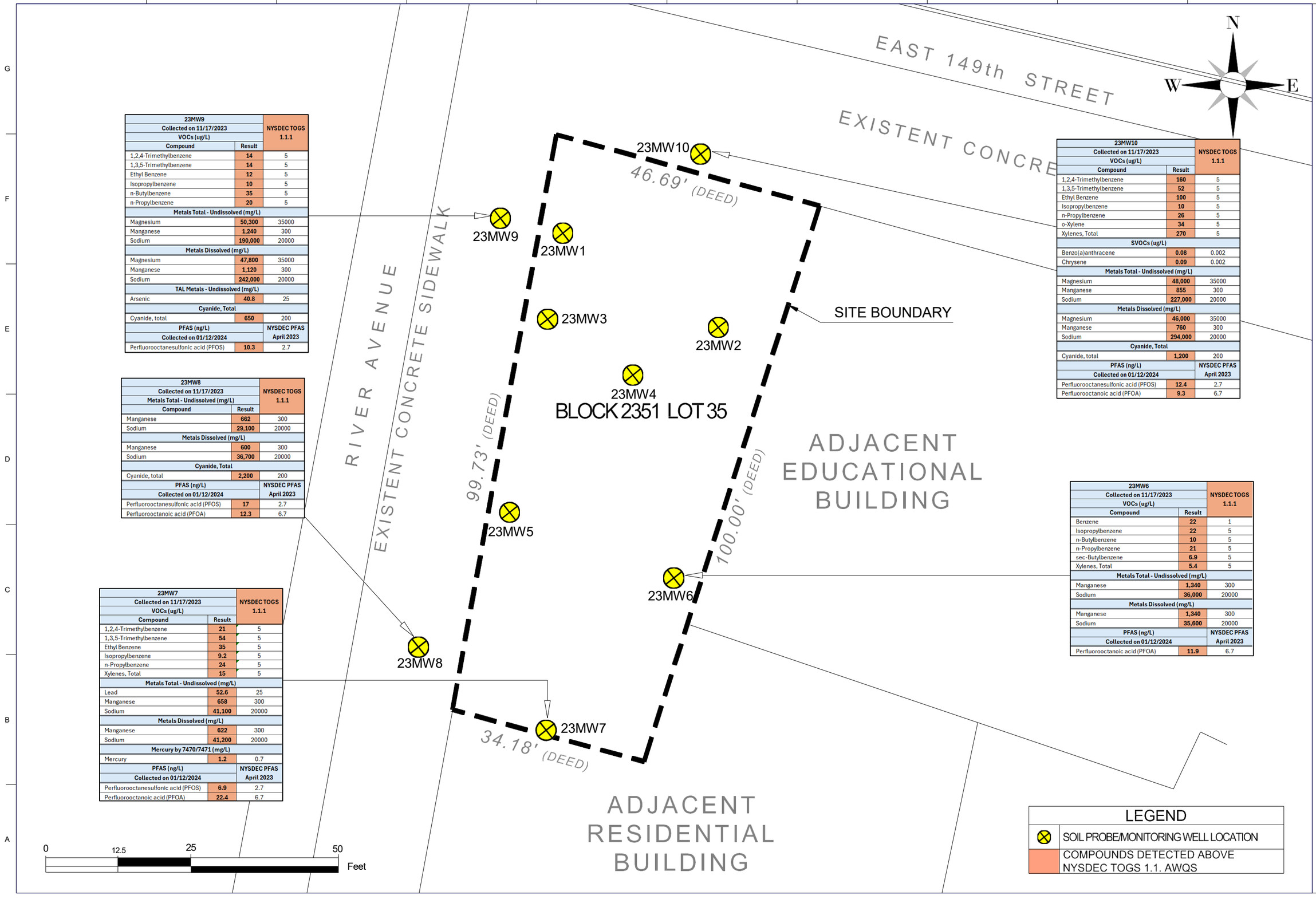
23MW9		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	14	5
1,3,5-Trimethylbenzene	14	5
Ethyl Benzene	12	5
Isopropylbenzene	10	5
n-Butylbenzene	35	5
n-Propylbenzene	20	5
Metals Total - Undissolved (mg/L)		
Magnesium	50,300	35000
Manganese	1,240	300
Sodium	190,000	20000
Metals Dissolved (mg/L)		
Magnesium	47,800	35000
Manganese	1,120	300
Sodium	242,000	20000
TAL Metals - Undissolved (mg/L)		
Arsenic	40.8	25
Cyanide, Total		
Cyanide, total	650	200
PFAS (ng/L)		NYSDEC PFAS April 2023
Collected on 01/12/2024		
Perfluorooctanesulfonic acid (PFOS)	10.3	2.7

23MW8		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
Metals Total - Undissolved (mg/L)		
Compound	Result	
Manganese	662	300
Sodium	29,100	20000
Metals Dissolved (mg/L)		
Manganese	600	300
Sodium	36,700	20000
Cyanide, Total		
Cyanide, total	2,200	200
PFAS (ng/L)		NYSDEC PFAS April 2023
Collected on 01/12/2024		
Perfluorooctanesulfonic acid (PFOS)	17	2.7
Perfluorooctanoic acid (PFOA)	12.3	6.7

23MW7		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	21	5
1,3,5-Trimethylbenzene	54	5
Ethyl Benzene	35	5
Isopropylbenzene	9.2	5
n-Propylbenzene	24	5
Xylenes, Total	15	5
Metals Total - Undissolved (mg/L)		
Lead	52.6	25
Manganese	658	300
Sodium	41,100	20000
Metals Dissolved (mg/L)		
Manganese	622	300
Sodium	41,200	20000
Mercury by 7470/7471 (mg/L)		
Mercury	1.2	0.7
PFAS (ng/L)		NYSDEC PFAS April 2023
Collected on 01/12/2024		
Perfluorooctanesulfonic acid (PFOS)	6.9	2.7
Perfluorooctanoic acid (PFOA)	22.4	6.7

23MW10		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
1,2,4-Trimethylbenzene	160	5
1,3,5-Trimethylbenzene	52	5
Ethyl Benzene	100	5
Isopropylbenzene	10	5
n-Propylbenzene	26	5
o-Xylene	34	5
Xylenes, Total	270	5
SVOCs (ug/L)		
Benzo(a)anthracene	0.08	0.002
Chrysene	0.09	0.002
Metals Total - Undissolved (mg/L)		
Magnesium	48,000	35000
Manganese	855	300
Sodium	227,000	20000
Metals Dissolved (mg/L)		
Magnesium	46,000	35000
Manganese	760	300
Sodium	294,000	20000
Cyanide, Total		
Cyanide, total	1,200	200
PFAS (ng/L)		NYSDEC PFAS April 2023
Collected on 01/12/2024		
Perfluorooctanesulfonic acid (PFOS)	12.4	2.7
Perfluorooctanoic acid (PFOA)	9.3	6.7

23MW6		NYSDEC TOGS 1.1.1
Collected on 11/17/2023		
VOCs (ug/L)		
Compound	Result	
Benzene	22	1
Isopropylbenzene	22	5
n-Butylbenzene	10	5
n-Propylbenzene	21	5
sec-Butylbenzene	6.9	5
Xylenes, Total	5.4	5
Metals Total - Undissolved (mg/L)		
Manganese	1,340	300
Sodium	36,000	20000
Metals Dissolved (mg/L)		
Manganese	1,340	300
Sodium	35,600	20000
PFAS (ng/L)		NYSDEC PFAS April 2023
Collected on 01/12/2024		
Perfluorooctanoic acid (PFOA)	11.9	6.7



LEGEND	
⊗	SOIL PROBE/MONITORING WELL LOCATION
	COMPOUNDS DETECTED ABOVE NYSDEC TOGS 1.1. AWQS

STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.

Structural Engineering Technologies, P.C

OFFICE:
40-12 28th Street
Long Island City, NY 11101

T: (718) 706 - 7196

MARK	DESCRIPTION	DATE

DRAWN BY: GC
REVIEWED BY: GC
APROSED BY: RA
ISSUE DATE: .
SOLICITATION NO.: .
CONTRACT NO.: .
SUBMITTED BY: .
SIZE: ANSI B

FIGURE 10B
COMPOUNDS DETECTED ABOVE STANDARDS IN GROUNDWATER SAMPLES

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
10B

23SV5	
Soil Vapor (ug/m3)	
11/29/2023	
Compound	**Result**
1,2,4-Trimethylbenzene	9.3
1,3,5-Trimethylbenzene	3.2
Benzene	6
Cyclohexane	4.5
Ethyl Benzene	7.8
o-Xylene	15
p- & m- Xylenes	30
Tetrachloroethylene	2
Toluene	18
Trichloroethylene	0.49

23SV1	
Soil Vapor (ug/m3)	
11/29/2023	
Compound	**Result**
Benzene	0.66
Carbon tetrachloride	0.37
p- & m- Xylenes	1.4
Toluene	1

23SV2	
Soil Vapor (ug/m3)	
11/29/2023	
Compound	**Result**
1,2,4-Trimethylbenzene	24
1,3,5-Trimethylbenzene	6.6
Benzene	2.1
Cyclohexane	6.3
Ethyl Benzene	8.7
o-Xylene	18
p- & m- Xylenes	39
Tetrachloroethylene	1
Toluene	17

23SV6	
Soil Vapor (ug/m3)	
11/29/2023	
Compound	**Result**
1,2,4-Trimethylbenzene	51
1,3,5-Trimethylbenzene	40
Cyclohexane	92
Ethyl Benzene	54
o-Xylene	21
p- & m- Xylenes	52
Tetrachloroethylene	17
Toluene	16

23SV3	
Soil Vapor (ug/m3)	
11/29/2023	
Compound	**Result**
1,2,4-Trimethylbenzene	0.73
Benzene	0.76
Carbon tetrachloride	0.47
o-Xylene	0.84
p- & m- Xylenes	2.3
Toluene	1.5

23SV4	
Soil Vapor (ug/m3)	
11/29/2023	
Compound	**Result**
1,2,4-Trimethylbenzene	6.2
1,3,5-Trimethylbenzene	1.7
Benzene	0.51
Carbon tetrachloride	0.36
Ethyl Benzene	3.5
o-Xylene	8.2
p- & m- Xylenes	16
Tetrachloroethylene	1.8
Toluene	3.6

OA-1	
Outdoor Ambient Air (ug/m3)	
Collected on 11/29/2023	
Compound	**Result**
Benzene	0.39
Carbon tetrachloride	0.24
p- & m- Xylenes	0.74
Toluene	0.55

EAST 149th STREET

EXISTENT CONCRETE SIDEWALK

RIVER AVENUE

EXISTENT CONCRETE SIDEWALK

23SV5

23SV1

23SV2

23SV6

23SV3

23SV4

OA-1

46.69' (DEED)

99.73' (DEED)

100.00' (DEED)

34.18' (DEED)

SITE BOUNDARY

BLOCK 2351 LOT 35

ADJACENT EDUCATIONAL

ADJACENT RESIDENTIAL BUILDING

N

W

E

S

0 12.5 25 50 Feet

LEGEND

- SOIL VAPOR PROBE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

Structural Engineering Technologies, P.C.
OFFICE:
40-12 28th Street
Long Island City, NY 11101
T: (718) 706 - 7196

MARK | DESCRIPTION | DATE

ISSUE DATE:
SOLICITATION NO.:
CONTRACT NO.:
DRAWN BY: GC
REVIEWED BY: GC
APROBED BY: RA
SUBMITTED BY:
SIZE: ANSI B

FIGURE 11
NYSDOH GUIDANCE COMPOUNDS DETECTED IN SOIL VAPOR AND AMBIENT AIR SAMPLES

BCP Site No. C203159
100 East 149th Street
BRONX, NEW YORK
BLOCK 2351, Lot 35

FIGURE ID
11

Table 1
Groundwater Monitoring Data
100 East 149th Street, Bronx, New York

Well No.	Elevation at from (rim)	November 17, 2023		November 21, 2023		April 24, 2024*	
		Depth to Water (ft)	Water Table Elevation (ft)	Depth to Water (ft)	Water Table Elevation (ft)	Depth to Water (ft)	Water Table Elevation (ft)
23MW1	16.66	13.04	3.62	*Not Measured*		12.83	3.83
23MW2	17.13	13.42	3.71	*Not Measured*		13.22	3.91
23MW3	16.69	13.01	3.68	*Not Measured*		12.89	3.80
23MW4	16.68	*Not Measured*		13.27	3.41	12.87	3.81
23MW5	16.19	*Not Measured*		13.91	2.28	12.19	4.00
23MW6	16.87	*Not Measured*		13.01	3.86	13.02	3.85
23MW7	16.49	*Not Measured*		12.98	3.51	12.45	4.04
23MW8	15.02	11.48	3.54	*Not Measured*		11.17	3.85
23MW9	15.83	12.55	3.28	*Not Measured*		12.26	3.57
23MW10	16.90	13.25	3.65	*Not Measured*		13.09	3.81

*Note: * Trace Product was identified in monitoring wells 23MW2 and 23MW6 on April 24, 2024*

Table 2A
Soil Volatile Organic Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID				2SSP1 (0-2.5ft)		2SSP1 (10-12.5ft)		2SSP1 (12.5-15ft)		2SSP1 (22.5-25ft)		2SSP2 (0-2.5)		2SSP2 (15-17.5)		2SSP2 (18-20)		2SSP2 (27.5-30)		2SSP3 (0-2.5)		2SSP3 (8-12 ft)		2SSP3 (12-14 ft)		2SSP3 (25-30 ft)		2SSP4 (0-5 ft)		2SSP4 (14-16 ft)		2SSP4 (27.5-30 ft)		2SSP5 (0-2.5 ft)		2SSP5 (12.5-15 ft)		2SSP5 (25-27.5 ft)	
Sampling Date	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/13/2023		11/13/2023		11/13/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,1,1-Trichloroethane	0.68	100	0.68	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,1,2,2-Tetrachloroethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,1,2-Trichloroethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,1-Dichloroethane	0.27	26	0.27	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,1-Dichloroethylene	0.33	100	0.33	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2,3-Trichlorobenzene	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2,3-Trichloropropane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2,4-Trichlorobenzene	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2,4-Trimethylbenzene	3.6	52	3.6	0.0038	U	0.0048	U	420	D	0.0067	J	0.061		88	D	3	D	0.007		0.0029	U	0.0023	U	0.0096		0.0026	U	0.28	U	0.06		64	D	16	D	0.033		0.0032	U	1.2	D	1.5	D	0.0024	U
1,2-Dibromo-3-chloropropane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2-Dibromoethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2-Dichlorobenzene	1.1	100	1.1	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2-Dichloroethane	0.02	3.1	0.02	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,2-Dichloropropane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,3,5-Trimethylbenzene	8.4	52	8.4	0.0038	U	0.0048	U	120	D	0.0038	U	0.023		45	D	1.1	D	0.0025	U	0.0029	U	0.0023	U	0.007		0.0026	U	0.28	U	0.015		22	D	6.2	D	0.011		0.0032	U	3.9	D	1.4	D	0.0024	U
1,3-Dichlorobenzene	2.4	49	2.4	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,4-Dichlorobenzene	1.8	13	1.8	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
1,4-Dioxane	0.1	13	0.1	0.08	U	0.1	U	12	U	0.0750	U	0.051	U	0.059	U	10	U	0.05	U	0.0570	U	0.0460	U	0.0670	U	0.046	U	0.052	U	5.6	U	8.1	U	0.045	U	0.064	U	8.20	U	5.2	U	0.049	U
2-Butanone	0.12	100	0.12	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
2-Hexanone	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
4-Methyl-2-pentanone	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Acetone	0.05	100	0.05	0.017		0.059		1.2	U	0.0110	J	0.051	U	0.066		1	U	0.0074	J	0.014		0.0046	U	0.0067	U	0.0062	J	0.0063	J	0.56	U	0.81	U	0.0045	U	0.0064	U	0.82	U	0.52	U	0.0049	U
Acrolein	~	~	~	0.0076	U	0.0096	U	1.2	U	0.0075	U	0.0051	U	0.0059	U	1	U	0.0050	U	0.0057	U	0.0046	U	0.0067	U	0.0046	U	0.0052	U	0.56	U	0.81	U	0.0045	U	0.0064	U	0.82	U	0.52	U	0.0049	U
Acrylonitrile	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Benzene	0.06	4.8	0.06	0.0038	U	0.0073	J	0.98	JD	0.0038	U	0.0075		0.0180		2	D	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0068		0.28	U	1.1	D	0.0022	U	0.0032	U	0.41	U	2.4	D	0.0024	U
Bromochloromethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Bromodichloromethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Bromoform	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Bromomethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Carbon disulfide	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Carbon tetrachloride	0.76	2.4	0.76	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Chlorobenzene	1.1	100	1.1	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Chloroethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Chloroform	0.37	49	0.37	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.410	U	0.26	U	0.0024	U
Chloromethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.410	U	0.26	U	0.0024	U
cis-1,2-Dichloroethylene	0.25	100	0.25	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.410	U	0.26	U	0.0024	U
cis-1,3-Dichloropropylene	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.410	U	0.26	U	0.0024	U
Cyclohexane	~	~	~	0.0038	U	0.0048	U	4.6	D	0.0038	U	0.049		0.22		16	D	0.0049	J	0.029	U	0.0023	U	0.0033	U	0.0023	U	0.016		4.1	D	6.8	D	0.008		0.0037	J	64	D	23	D	0.0031	J
Dibromochloromethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Dibromomethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Dichlorodifluoromethane	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Ethyl Benzene	1	41	1	0.0038	U	0.0048	U	98	D	0.0038	U	0.12		34	D	4.9	D	0.011		0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	25	D	5	D	0.0076		0.0032	U	8.2	D	2	D	0.0024	U
Hexachlorobutadiene	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Isopropylbenzene	~	~	~	0.0038	U	0.0048	U	16	D	0.0038	U	0.012		3.1	D	2.6	D	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0058		18	D	1.7	D	0.0028		0.0032	U	13	D	3.6	D	0.0024	U
Methyl acetate	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Methyl tert-butyl ether (MTBE)	0.93	100	0.93	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Methylcyclohexane	~	~	~	0.0038	U	0.0048	U	270	D	0.0038	U	0.081		63	D	36	D	0.0054		0.0029	U	0.0023	U	2.8	D	0.0023	U	0.0300		22	D	19	D	0.05		0.0032	U	100	D	81	D	0.005	
Methylene chloride	0.05	100	0.05	0.0076	U	0.0096	U	1.2	U	0.0075	U	0.0051	U	0.0059	U	1	U	0.0050	U	0.0057	U	0.0046	U	0.0067	U	0.0046	U	0.0052	U	0.56	U	0.81	U	0.0045	U	0.0064	U	0.82	U	0.52	U	0.0049	U
n-Butylbenzene	12	100	12	0.0038	U	0.0048	U	22	D	0.0038	U	0.0037	J	0.08		6.1	D	0.0025	U	0.0029	U	0.0023	U	0.092		0.0026	U	11	D	1.4	D	0.0022	U	0.0032	U	22	D	4.80	D	0.0024	U
n-Propylbenzene	3.9	100	3.9	0.0038	U	0.0048	U	53	D	0.0038	U	0.031		0.37		10	D	0.0018	J	0.0029	U	0.0023	U	0.17		0.0026	U	11	D	5	D	0.0089		0.0032	U	43	D	9.5	D	0.0024	U
o-Xylene	~	~	~	0.0038	U	0.0048	U	17	D	0.0038	U	0.0043	J	0.048		0.53	JD	0.0025	U	0.0029	U	0.0023	U	0.0098		0.0023	U	0.0032	J	2.2	D	0.88	D	0.0022	U	0.0032	U	3.1	D	0.65	D	0.0024	U
p- & m- Xylenes	~	~	~	0.0076	U	0.0096	U	100	D	0.0075	U	0.038		0.37		3.7	D	0.0025	U	0.0057	U	0.0046	U	0.026		0.0046	U	0.026		36	D	8.5	D	0.012		0.0064	U	6.9	D	2.4	D	0.0049	U
p-Isopropyltoluene	~	~	~	0.0038	U	0.0048	U	5.6	D	0.0038	U	0.0025	U	0.028		0.96	JD	0.0025	U	0.0029	U	0.0023	U	0.022		0.0023	U	0.0036	U	4	D	0.58	JD	0.0022	U	0.0032	U	7	D	1.50	D	0.0024	U
sec-Butylbenzene	11	100	11	0.0038	U	0.0048	U	9.3	D	0.0038	U	0.0025	U	0.043		2.1	D	0.0025	U	0.0029	U	0.0023	U	0.056		0.0023	U	0.0036	U	4.2	D	0.41	U	0.0022	U	0.0032	U	6.8	D	1.8	D	0.0024	U
Styrene	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
tert-Butyl alcohol (TBA)	~	~	~	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
tert-Butylbenzene	5.9	100	5.9	0.0038	U	0.0048	U	10	D	0.0038	U	0.008		0.048		1.1	D	0.0025	U	0.0029	U	0.0023	U	0.0053	J	0.0026	J	0.28	U	0.41	U	0.0022	U	0.0032	U	2	D	0.26	U	0.0024	U
Tetrachloroethylene	1.3	19	1.3	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Toluene	0.7	100	0.7	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
trans-1,2-Dichloroethylene	0.19	100	0.19	0.0038	U	0.0048	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
trans-1,3-Dichloropropylene	~	~	~	0.0038	U	0.005	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
trans-1,4-dichloro-2-butene	~	~	~	0.0038	U	0.005	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Trichloroethylene	0.47	21	0.47	0.0038	U	0.005	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Trichlorofluoromethane	~	~	~	0.0038	U	0.005	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Vinyl Chloride	0.02	0.9	0.02	0.0038	U	0.005	U	0.62	U	0.0038	U	0.0025	U	0.0029	U	0.5	U	0.0025	U	0.0029	U	0.0023	U	0.0033	U	0.0026	U	0.28	U	0.41	U	0.0022	U	0.0032	U	0.41	U	0.26	U	0.0024	U
Xylenes, Total	0.26	100	1.6	0.011	U	0.014	U	200	D	0.011	U	0.042		0.41		4.3	D	0.0075	U	0.0086	U	0.0069	U	0.041		0.0069	U	0.063		38	D	9.4	D	0.012	J	0.016	U	10	D	3	D	0.0073	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation
Green shaded values exceed the UUSCO Standard
Orange shaded values exceed the UUSCO and Protection of Groundwater Standards
Purple shaded values exceed the UUSCO, RRSCO, and Protection of Groundwater Standards

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reportine Limit) - data is estimated
U=analyte not detected at or above the level indicated
NT=this indicates that the analyte was not a target for this sample
^=this indicates that no reeulatory limit has been established for this analyte

Table 2A continued
Soil Volatile Organic Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID				2SSP6 (0-2.5 ft)		2SSP6 (12.5-15 ft)		2SSP6 (15-17.5 ft)		2SSP6 (22.5-25 ft)		2SSP7 (0-2.5ft)		2SSP7 (12-14ft)		2SSP7 (14-18ft)		2SSP7 (27.5-30ft)		2SSP8 (0-2.5ft)		2SSP8 (10-12.5ft)		2SSP8 (16-18.5ft)		2SSP9 (0-2.5ft)		2SSP9 (10-12.5ft)		2SSP9 (12.5-15ft)		2SSP9 (25-27.5ft)		2SSP10 (0-2.5ft)		2SSP10 (12.5-15ft)		2SSP10 (18-22ft)		2SSP10 (25-27.5ft)	
Sampling Date	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	11/13/2023		11/13/2023		11/13/2023		11/13/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	~	~	~	0.0025	U	0.36	U	0.56	U	0.003	U	0.0025	U	0.29	U	0.34	U	0.002	U	0.0027	U	0.0029	U	0.28	U	0.0023	U	0.0028	U	0.0042	U	0.49	U	0.0023	U	0.0033	U	0.0035	U	0.0034	U	0.0022	U
1,1,1-Trichloroethane	0.68	100	0.68	0.0025	U	0.36	U	0.56	U	0.003	U	0.0025	U	0.29	U	0.34	U	0.002	U	0.0027	U	0.0029	U	0.28	U	0.0023	U	0.0028	U	0.0042	U	0.49	U	0.0023	U	0.0033	U	0.0035	U	0.0034	U	0.0022	U
1,1,2,2-Tetrachloroethane	~	~	~	0.0025

Table 2A continued
Soil Semi Volatile Organic Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	2SVP1 (0-2.5ft)		2SVP1 (10-12.5ft)		2SVP1 (12.5-15ft)		2SVP1 (22.5-25ft)		2SVP2 (0-2.5)		2SVP2 (15-17.5)		2SVP2 (17-19)		2SVP2 (18-20)		2SVP2 (20-22.5)		2SVP3 (0-2.5 ft)		2SVP3 (8-12 ft)		2SVP3 (12-14 ft)		2SVP3 (25-30 ft)		2SVP4 (0-5 ft)		2SVP4 (12-18 ft)		2SVP4 (18-24 ft)		2SVP4 (27.5-30 ft)		2SVP5 (0-2.5 ft)		2SVP5 (12.5-15 ft)		2SVP5 (15-17.5 ft)		2SVP5 (25-27.5 ft)	
Sampling Date				11/7/2022		11/7/2022		11/7/2022		11/7/2022		11/7/2022		11/7/2022		11/7/2022		11/7/2022		11/7/2022		11/8/2022		11/8/2022		11/8/2022		11/8/2022		11/8/2022		11/8/2022		11/8/2022		11/8/2022		11/13/2022		11/13/2022		11/13/2022		11/13/2022	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil																																												
1,4-Dioxane	0.1	13	0.1	0.0194	U	0.0389	U	0.0396	U	0.0394	U	0.0398	U	0.0398	U	0.0398	U	0.0398	U	0.0398	U	0.0397	U	0.0390	U	0.0387	U	0.0390	U	0.0389	U	0.0398	U	0.0398	U	0.0398	U	0.0398	U	0.0398	U	0.0392	U
Semi-Volatiles, 8270 - Comprehensive																																												
1,1-Biphenyl	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	**0.0540**	**JD**	0.0555	U	0.0512	U	0.0471	U	**0.0674**	**JD**	0.0597	U	0.0502	U
1,2,4,5-Tetrachlorobenzene	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
1,2,4-Trichlorobenzene	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
1,2-Dichlorobenzene	1.1	100	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
1,2-Diphenylhydrazine (as Azobenzene)	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
1,3-Dichlorobenzene	2.4	49	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
1,4-Dichlorobenzene	1.8	13	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2,3,4,6-Tetrachlorophenol	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
2,4,5-Trichlorophenol	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2,4,6-Trichlorophenol	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2,4-Dichlorophenol	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2,4-Dimethylphenol	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2,4-Dinitrophenol	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
2,4-Dinitrotoluene	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2,6-Dinitrotoluene	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2-Chloronaphthalene	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2-Chlorophenol	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2-Methylnaphthalene	–	–	–	**0.900**	**D**	**0.149**	**D**	**6.410**	**D**	0.0518	U	0.0460	U	**0.775**	**D**	**0.153**	**D**	0.0695	U	0.0446	U	0.0445	U	**0.871**	**D**	0.0506	U	**0.0470**	**JD**	**3.590**	**D**	**2.7**	**D**	0.0512	U	0.0471	U	**12.600**	**D**	**6.920**	**D**	0.0502	U
2-Methylphenol	0.33	100	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
2-Nitroaniline	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
2-Nitrophenol	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
3- & 4-Methylphenols	0.33	100	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
3,3-Dichlorobenzidine	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
3-Nitroaniline	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
4,6-Dinitro-2-methylphenol	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
4-Bromophenyl phenyl ether	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
4-Chloroaniline	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
4-Chlorophenyl phenyl ether	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
4-Nitroaniline	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
4-Nitrophenol	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
Acenaphthene	20	100	–	**0.0861**	**D**	0.0589	U	**0.310**	**D**	0.0518	U	**0.117**	**D**	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	**0.0505**	**JD**	**0.0702**	**JD**	0.0555	U	0.0512	U	0.0471	U	**0.285**	**D**	**0.211**	**D**	0.0502	U
Acenaphthylene	100	100	–	**0.523**	**D**	0.0589	U	**0.0704**	**D**	0.0518	U	**0.0611**	**D**	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Acetophenone	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Aniline	–	–	–	0.174	U	0.235	U	0.248	U	0.207	U	0.184	U	0.245	U	0.274	U	0.198	U	0.178	U	0.178	U	0.197	U	0.202	U	0.184	U	0.193	U	0.222	U	0.205	U	0.188	U	0.194	U	0.239	U	0.201	U
Anthracene	100	100	–	**0.265**	**D**	0.0589	U	**0.386**	**D**	0.0518	U	**0.172**	**D**	0.0613	U	0.0685	U	0.0695	U	**0.0448**	**JD**	**0.0801**	**JD**	0.0493	U	0.0506	U	**0.733**	**D**	**0.126**	**D**	**1.230**	**D**	**0.179**	**D**	**1.260**	**D**	**0.679**	**D**	0.0502	U
Atrazine	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Benzaldehyde	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	**0.0472**	**JD**	0.0597	U	0.0502	U
Benzidine	–	–	–	0.174	U	0.235	U	0.248	U	0.207	U	0.184	U	0.245	U	0.274	U	0.198	U	0.178	U	0.178	U	0.197	U	0.202	U	0.184	U	0.193	U	0.222	U	0.205	U	0.188	U	0.194	U	0.239	U	0.201	U
Benzo(a)anthracene	1	1	–	**1**	**D**	**0.0968**	**JD**	**0.17**	**D**	0.0518	U	**1.80**	**D**	**0.0725**	**JD**	**0.120**	**JD**	0.0695	U	0.0446	U	0.0445	U	**0.150**	**D**	0.0506	U	**0.698**	**D**	**0.117**	**D**	**1.07**	**D**	**0.169**	**D**	**1.07**	**D**	**0.572**	**D**	0.0502	U
Benzo(a)pyrene	1	1	–	**2.01**	**D**	**0.118**	**D**	**2.37**	**D**	0.0518	U	**0.979**	**D**	**0.0645**	**JD**	**0.125**	**JD**	0.0695	U	**0.141**	**D**	**0.101**	**D**	**0.131**	**D**	0.0506	U	**2.91**	**D**	**1.62**	**D**	**0.0602**	**JD**	0.0512	U	**0.924**	**D**	**0.901**	**D**	**0.546**	**D**	0.0502	U
Benzo(b)fluoranthene	1	1	–	**2.01**	**D**	**0.149**	**D**	**2.37**	**D**	0.0518	U	**1.30**	**D**	0.0613	U	**0.0902**	**JD**	0.0695	U	**0.131**	**D**	**0.767**	**D**	**0.103**	**D**	0.0506	U	**2.81**	**D**	**1.21**	**D**	0.0555	U	0.0512	U	**0.788**	**D**	**0.784**	**D**	**0.421**	**D**	0.0502	U
Benzo(g,h,i)perylene	100	100	–	**2.130**	**D**	**0.103**	**JD**	**1.890**	**D**	0.0518	U	**0.555**	**D**	0.0613	U	**0.0809**	**JD**	0.0695	U	**0.125**	**D**	**0.660**	**D**	**0.0920**	**JD**	0.0506	U	**1.51**	**D**	**1.08**	**D**	0.0555	U	0.0512	U	**0.769**	**D**	**0.293**	**D**	**0.329**	**D**	0.0502	U
Benzo(k)fluoranthene	0.8	1.3	–	**0.863**	**D**	0.0589	U	**1.00**	**D**	0.0518	U	**0.752**	**D**	0.0613	U	**0.0885**	**JD**	0.0695	U	**0.0895**	**D**	**0.625**	**D**	**0.0683**	**JD**	0.0506	U	**2.11**	**D**	**1.03**	**D**	0.0555	U	0.0512	U	**0.611**	**D**	**0.379**	**D**	**0.38**	**D**	0.0502	U
Benzoic acid	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Benzyl alcohol	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Benzyl butyl phthalate	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Bis(2-chloroethoxy)methane	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Bis(2-chloroethyl)ether	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Bis(2-chloroisopropyl)ether	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Bis(2-ethylhexyl)phthalate	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Caprolactam	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
Carbazole	–	–	–	**0.0444**	**JD**	0.0589	U	**0.130**	**D**	0.0518	U	**0.0958**	**D**	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	**0.0581**	**JD**	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Chrysene	1	3.9	–	**1.01**	**D**	**0.0968**	**JD**	**1.37**	**D**	0.0518	U	**1.40**	**D**	**0.0766**	**JD**	**0.116**	**JD**	0.0695	U	**0.140**	**D**	**0.706**	**D**	**0.122**	**D**	0.0506	U	**2.55**	**D**	**1.17**	**D**	**0.0611**	**JD**	0.0512	U	**0.843**	**D**	**0.836**	**D**	**0.503**	**D**	0.0502	U
Dibenz(a,h)anthracene	0.33	0.33	–	**0.0951**	**JD**	0.0589	U	**0.165**	**D**	0.0518	U	**0.144**	**D**	0.0613	U	0.0685	U	0.0695	U	0.0446	U	**0.175**	**D**	0.0493	U	0.0506	U	**0.106**	**D**	**0.256**	**D**	0.0555	U	0.0512	U	**0.168**	**D**	**0.0719**	**JD**	**0.08**	**JD**	0.0502	U
Dibenzofuran	7	59	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	**0.0712**	**JD**	0.119	U	0.100	U
Diethyl phthalate	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Dimethyl phthalate	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Di-n-butyl phthalate	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Di-n-octyl phthalate	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Diphenylamine	–	–	–	0.0867	U	0.118	U	0.124	U	0.103	U	0.0917	U	0.122	U	0.137	U	0.0988	U	0.0890	U	0.0887	U	0.0984	U	0.101	U	0.0920	U	0.0965	U	0.111	U	0.102	U	0.0940	U	0.0969	U	0.119	U	0.100	U
Fluoranthene	100	100	–	**1.850**	**D**	**0.155**	**D**	**2.080**	**D**	0.0518	U	**2.060**	**D**	**0.125**	**D**	**0.259**	**D**	0.0695	U	**0.292**	**D**	**0.775**	**D**	**0.230**	**D**	0.0506	U	**5.160**	**D**	**1.950**	**D**	**0.133**	**D**	0.0512	U	**0.913**	**D**	**1.200**	**D**	**1.250**	**D**	0.0502	U
Fluorene	30	100	–	**0.159**	**D**	0.0589	U	**0.351**	**D**	0.0518	U	**0.184**	**D**	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	**0.0811**	**JD**	0.0506	U	**0.110**	**D**	0.0484	U	0.0555	U	0.0512	U	0.0471	U	**0.139**	**D**	**0.146**	**D**	0.0502	U
Hexachlorobenzene	0.33	1.2	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Hexachlorobutadiene	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Hexachlorocyclopentadiene	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Hexachloroethane	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Indeno(1,2,3-cd)pyrene	0.5	0.5	–	**1.07**	**D**	**0.114**	**JD**	**2.09**	**D**	0.0518	U	**0.688**	**D**	0.0613	U	**0.105**	**JD**	0.0695	U	**0.115**	**D**	**0.764**	**D**	**0.0959**	**JD**	0.0506	U	**2.1**	**D**	**1.26**	**D**	0.0555	U	0.0512	U	**0.82**	**D**	**0.351**	**D**	**0.378**	**D**	0.0502	U
Isophorone	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
Naphthalene	12	100	12	**0.939**	**D**	**0.360**	**D**	**11.100**	**D**	0.0518	U	**1.080**	**D**	**0.110**	**D**	0.0695	U	0.0446	U	0.0445	U	**1.200**	**D**	0.0506	U	**0.243**	**D**	**0.470**	**D**	**3.390**	**D**	0.0512	U	0.0471	U	0.0485	U	**0.960**	**D**	0.0502	U
Nitrobenzene	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597	U	0.0502	U
N-Nitrosodimethylamine	–	–	–	0.0435	U	0.0589	U	0.0622	U	0.0518	U	0.0460	U	0.0613	U	0.0685	U	0.0695	U	0.0446	U	0.0445	U	0.0493	U	0.0506	U	0.0461	U	0.0484	U	0.0555	U	0.0512	U	0.0471	U	0.0485	U	0.0597

Table 2C
Soil Pesticide Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	23SP1 (0-2.5ft)		23SP1 (10-12.5ft)		23SP1 (12.5-15ft)		23SP1 (22.5-25ft)		23SP2 (0-2.5)		23SP2 (15-17.5)		23SP2 (18-20)		23SP2 (27.5-30)		23SP3 (0-2.5 ft)		23SP3 (8-12 ft)		23SP3 (12-14 ft)		23SP3 (25-30 ft)		23SP4 (0-5 ft)		23SP4 (12-14 ft)		23SP4 (14-16 ft)		23SP4 (27.5-30 ft)		23SP5 (0-2.5 ft)		23SP5 (12.5-15 ft)		23SP5 (15-17.5 ft)		23SP5 (25-27.5 ft)	
Sampling Date				11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/13/2023		11/13/2023		11/13/2023		11/13/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
4,4'-DDD	0.0033	13	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
4,4'-DDE	0.0033	8.9	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
4,4'-DDT	0.0033	7.9	---	**0.00199**	D	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00494	D	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Aldrin	0.005	0.097	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
alpha-BHC	0.02	0.48	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
alpha-Chlordane	0.094	4.2	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	**0.00245**	D	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
beta-BHC	0.036	0.36	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Chlordane, total	~	~	~	0.0352	U	0.0471	U	0.0502	U	0.0417	U	0.0364	U	0.0487	U	0.0541	U	0.0386	U	0.0359	U	0.0357	U	0.0390	U	0.0391	U	0.0361	U	0.0387	U	0.0438	U	0.0406	U	0.0378	U	0.0391	U	0.0476	U	0.0395	U
delta-BHC	0.04	100	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Dieldrin	0.005	0.2	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Endosulfan I	2.4	24	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Endosulfan II	2.4	24	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Endosulfan sulfate	2.4	24	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Endrin	0.014	11	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Endrin aldehyde	~	~	~	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Endrin ketone	~	~	~	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
gamma-BHC (Lindane)	0.1	1.3	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
gamma-Chlordane	~	~	~	**0.00213**	D	0.00236	U	0.00251	U	0.00209	U	**0.00280**	D	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Heptachlor	0.042	2.1	---	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Heptachlor epoxide	~	~	~	0.00176	U	0.00236	U	0.00251	U	0.00209	U	0.00182	U	0.00243	U	0.00270	U	0.00193	U	0.00180	U	0.00178	U	0.00195	U	0.00195	U	0.00181	U	0.00194	U	0.00219	U	0.00203	U	0.00189	U	0.00195	U	0.00238	U	0.00198	U
Methoxychlor	~	~	~	0.00881	U	0.0118	U	0.0126	U	0.0104	U	0.00910	U	0.0122	U	0.0135	U	0.00965	U	0.00898	U	0.00892	U	0.00976	U	0.00977	U	0.00904	U	0.00968	U	0.0110	U	0.0101	U	0.00946	U	0.00977	U	0.0119	U	0.00988	U
Toxaphene	~	~	~	0.0891	U	0.119	U	0.127	U	0.106	U	0.0921	U	0.123	U	0.137	U	0.0977	U	0.0909	U	0.0903	U	0.0988	U	0.0989	U	0.0915	U	0.0979	U	0.111	U	0.103	U	0.0957	U	0.0989	U	0.120	U	0.100	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation
Green shaded values exceed the UUSCO Standard

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
U=analyte not detected at or above the level indicated
"~"=this indicates that no regulatory limit has been established for this analyte
"---" ... this indicates that the compound was not compared to the NYSDEC PGSCO

Table 2C continued
Soil Pesticide Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	23SP6 (0-2.5 ft)		23SP6 (12.5-15 ft)		23SP6 (15-17.5 ft)		23SP6 (22.5-25 ft)		23SP7 (0-2.5ft)		23SP7 (12-14ft)		23SP7 (14-18ft)		23SP7 (27.5-30ft)		23SP8 (0-2.5ft)		23SP8 (10-12.5ft)		23SP8 (14-16ft)		23SP8 (25-27.5ft)		23SP9 (0-2.5ft)		23SP9 (10-12.5ft)		23SP9 (12.5-15ft)		23SP9 (25-27.5ft)		23SP10 (0-2.5ft)		23SP10 (12.5-15ft)		23SP10 (18-22ft)		23SP10 (25-27.5ft)	
Sampling Date				11/13/2023		11/13/2023		11/13/2023		11/13/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
4,4'-DDD	0.0033	13	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
4,4'-DDE	0.0033	8.9	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
4,4'-DDT	0.0033	7.9	---	**0.00274**	D	0.00212	U	0.00263	U	0.00240	U	**0.00188**	D	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Aldrin	0.005	0.097	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
alpha-BHC	0.02	0.48	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
alpha-Chlordane	0.094	4.2	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
beta-BHC	0.036	0.36	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Chlordane, total	~	~	~	0.0351	U	0.0425	U	0.0527	U	0.0480	U	0.0370	U	0.0386	U	0.0483	U	0.0385	U	0.0358	U	0.0389	U	0.0432	U	0.0403	U	0.0359	U	0.0423	U	0.0522	U	0.0388	U	0.0358	U	0.0408	U	0.0400	U	0.0426	U
delta-BHC	0.04	100	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Dieldrin	0.005	0.2	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Endosulfan I	2.4	24	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Endosulfan II	2.4	24	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Endosulfan sulfate	2.4	24	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Endrin	0.014	11	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Endrin aldehyde	~	~	~	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Endrin ketone	~	~	~	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
gamma-BHC (Lindane)	0.1	1.3	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
gamma-Chlordane	~	~	~	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Heptachlor	0.042	2.1	---	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Heptachlor epoxide	~	~	~	0.00175	U	0.00212	U	0.00263	U	0.00240	U	0.00185	U	0.00193	U	0.00241	U	0.00193	U	0.00179	U	0.00194	U	0.00216	U	0.00202	U	0.00179	U	0.00212	U	0.00261	U	0.00194	U	0.00179	U	0.00204	U	0.00200	U	0.00213	U
Methoxychlor	~	~	~	0.00877	U	0.0106	U	0.0132	U	0.0120	U	0.00926	U	0.00965	U	0.0121	U	0.00963	U	0.00894	U	0.00971	U	0.0108	U	0.0101	U	0.00896	U	0.0106	U	0.0130	U	0.00970	U	0.00895	U	0.0102	U	0.0100	U	0.0106	U
Toxaphene	~	~	~	0.0888	U	0.107	U	0.133	U	0.122	U	0.0937	U	0.0976	U	0.122	U	0.0975	U	0.0905	U	0.0983	U	0.109	U	0.102	U	0.0907	U	0.107	U	0.132	U	0.0981	U	0.0906	U	0.103	U	0.101	U	0.108	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
U=analyte not detected at or above the level indicated
"~"=this indicates that no regulatory limit has been established for this analyte
"---" ... this indicates that the compound was not compared to the NYSDEC PGSCO

Table 2D
Soil PCB Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	23SP1 (0-2.5ft)		23SP1 (10-12.5ft)		23SP1 (12.5-15ft)		23SP1 (22.5-25ft)		23SP2 (0-2.5)		23SP2 (15-17.5)		23SP2 (18-20)		23SP2 (27.5-30)		23SP3 (0-2.5 ft)		23SP3 (8-12 ft)		23SP3 (12-14 ft)		23SP3 (25-30 ft)		23SP4 (0-5 ft)		23SP4 (12-14 ft)		23SP4 (14-16 ft)		23SP4 (27.5-30 ft)		23SP5 (0-2.5 ft)		23SP5 (12.5-15 ft)		23SP5 (15-17.5 ft)		23SP5 (25-27.5 ft)	
Sampling Date				11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/13/2023		11/13/2023		11/13/2023		11/13/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aroclor 1016	~	~	~	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U
Aroclor 1221	~	~	~	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U
Aroclor 1232	~	~	~	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U
Aroclor 1242	~	~	~	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U
Aroclor 1248	~	~	~	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U
Aroclor 1254	~	~	~	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U
Aroclor 1260	~	~	~	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U
Total PCBs	0.1	1	---	0.0178	U	0.0238	U	0.0254	U	0.0211	U	0.0184	U	0.0246	U	0.0273	U	0.0195	U	0.0181	U	0.0180	U	0.0197	U	0.0197	U	0.0183	U	0.0195	U	0.0221	U	0.0205	U	0.0191	U	0.0197	U	0.0240	U	0.0200	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
U=analyte not detected at or above the level indicated
"~=this indicates that no regulatory limit has been established for this analyte
--- ... this indicates that the compound was not compared to the NYSDEC PGSCO

Table 2D continued
Soil PCB Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	23SP6 (0-2.5 ft)		23SP6 (12.5-15 ft)		23SP6 (15-17.5 ft)		23SP6 (22.5-25 ft)		23SP7 (0-2.5ft)		23SP7 (12-14ft)		23SP7 (14-18ft)		23SP7 (27.5-30ft)		23SP8 (0-2.5ft)		23SP8 (10-12.5ft)		23SP8 (14-16ft)		23SP8 (25-27.5ft)		23SP9 (0-2.5ft)		23SP9 (10-12.5ft)		23SP9 (12.5-15ft)		23SP9 (25-27.5ft)		23SP10 (0-2.5ft)		23SP10 (12.5-15ft)		23SP10 (18-22ft)		23SP10 (25-27.5ft)	
Sampling Date				11/13/2023		11/13/2023		11/13/2023		11/13/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aroclor 1016	~			0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U
Aroclor 1221	~	~	~	0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U
Aroclor 1232	~	~	~	0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U
Aroclor 1242	~	~	~	0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U
Aroclor 1248	~	~	~	0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U
Aroclor 1254	~	~	~	0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U
Aroclor 1260	~	~	~	0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U
Total PCBs	0.1	1	---	0.0177	U	0.0214	U	0.0266	U	0.0243	U	0.0187	U	0.0195	U	0.0244	U	0.0195	U	0.0183	U	0.0199	U	0.0218	U	0.0206	U	0.0183	U	0.0214	U	0.0265	U	0.0194	U	0.0181	U	0.0207	U	0.0204	U	0.0213	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
U=analyte not detected at or above the level indicated
"~=this indicates that no regulatory limit has been established for this analyte
--- ... this indicates that the compound was not compared to the NYSDEC PGSCO

Table 2E
Soil Metal Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	2SSP1 (0-2.5ft)		2SSP1 (10-12.5ft)		2SSP1 (12.5-15ft)		2SSP1 (22.5-25ft)		2SSP2 (0-2.5)		2SSP2 (15-17.5)		2SSP2 (18-20)		2SSP2 (27.5-30)		2SSP3 (0-2.5 ft)		2SSP3 (8-12 ft)		2SSP3 (12-14 ft)		2SSP3 (25-30 ft)		2SSP4 (0-5 ft)		2SSP4 (12-14 ft)		2SSP4 (14-16 ft)		2SSP4 (27.5-30 ft)		2SSP5 (0-2.5 ft)		2SSP5 (12.5-15 ft)		2SSP5 (15-17.5 ft)		2SSP5 (25-27.5 ft)	
Sampling Date				11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/13/2023		11/13/2023		11/13/2023		11/13/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	~	~	~	5,790		9,080		4,790		9,380		12,300		14,800		8,120		10,200		8,350		6,830		7,980		8,120		14,600		8,630		6,300		8,330		7,080		7,600		6,460		10,400	
Antimony	~	~	~	2.23	U	3.01	U	3.19	U	2.65	U	2.32	U	3.14	U	3.43	U	2.51	U	2.28	U	2.26	U	2.47	U	2.54	U	2.35	U	2.45	U	2.78	U	2.570	U	2.4	U	2.48	U	3.02	U	2.55	U
Arsenic	13	16	---	3.28		8.880		38.4		2.98		13.8		3.73		24		2.62		3.8		5		3.84		2.69		3.67		7.55		5.4		1.540	U	4.95		12.7		5.6		3.19	
Barium	350	400	---	63.1		132		128		23.1		151		146		261		39.1		478		200		96.6		33.3		122		116		139		36.60		145		170		124		55.2	
Beryllium	7.2	72	---	0.045	U	0.061	U	0.09		0.053	U	0.047	U	0.063	U	0.324		0.051	U	0.046	U	0.046	U	0.05	U	0.051	U	0.047	U	0.049	U	0.056	U	0.052	U	0.048	U	0.091		0.061	U	0.051	U
Cadmium	2.5	4.3	---	0.268	U	0.361	U	0.383	U	0.318	U	1.09		0.376	U	0.411	U	0.301	U	0.273	U	0.271	U	0.297	U	0.305	U	0.282	U	0.294	U	0.333	U	0.308	U	0.809		0.297	U	0.363	U	0.305	U
Calcium	~	~	~	67,700	B	16,000	B	5,870	B	619	B	61,200	B	10,500	B	10,700	B	1,040	B	47,900	B	30,500	B	11,700	B	591	B	12,100	B	20,800	B	13,400	B	1,750	B	18,300		9,040		36,900		2,300	
Chromium	~	~	~	11.3		22.4		13		14.1		24.8		21.9		18.7		23.2		18.2		16.6		23.1		13		25.7		18.6		13.7		20.8		16.6		20.1		44.2		34.1	
Cobalt	~	~	~	3.92		7.36		9.58		4.68		10		7.78		9.08		7.53		5.02		6.02		7.83		3.85		9.45		8.87		5.05		5.83		5.42		7.57		6.75		6.77	
Copper	50	270	---	12.500		65.4		94.2		7.27		88.7		24		130		15.6		52.4		53.9		28		11.1		37.9		40.9		38		18.9		51.2		39.3		41.3		19.8	
Iron	~	~	~	9,410		16,600		23,300		10,700		50,600		19,500		13,200		13,900		12,600		16,000		13,100		8,520		17,600		40,300		10,900		11,300		14,700		10,100		12,400		18,700	
Lead	63	400	---	15.100	B	420	B	323		5.84		251		143		539		8.29		73.4		186		125		8.57		107		117		358		4.55		309	B	350	B	226	B	7.27	B
Magnesium			~	5,180		4,780		1,220		2,410		37,400		7,130		1,770		4,530		4,880		7,320		3,290		2,200		4,980		3,880		2,500		3,290		10,000		1,660		8,890		5,710	
Manganese	1600	2000	---	160		196		436		78.4		403		261		193		118		216		223		255		62.4		342		625		303		96		233		162		252		111	
Nickel	30	310	---	11.1		19.8		25.2		11.3		26.6		21.5		21.9		16.6		14.6		14.9		21.8		11.1		21.6		19.9		19.8		13		16.2		21.8		39.1		18.4	
Potassium	~	~	~	2,010		2,090		773		917		4,340		1,400		851		2,320		1,320		1,170		2,140		1,020		2,710		2,400		1,030		2,180		1,300		1,020		1,330		2,640	
Selenium	3.9	180	---	2.23	U	4.2		7.84		3.47		7.61		3.45		6.59		2.97		2.42		2.82		2.47	U	2.54	U	2.58		7.15		2.78	U	2.57	U	2.4	U	2.89		3.02	U	3.09	
Silver	2	180	---	0.45	U	0.606	U	0.644	U	0.535	U	0.468	U	0.632	U	30.5		0.506	U	0.459	U	0.456	U	0.499	U	0.512	U	0.474	U	0.494	U	0.56	U	0.518	U	0.485	U	0.499	U	0.63	U	0.513	U
Sodium	~	~	~	389		610		473		89.9		1,860		440		1,980		50.2	U	1,500		856		211		106		483		49	U	558		51.4	U	456		865		819		50.9	U
Thallium	~	~	~	2.23	U	3.01	U	3.19	U	2.65	U	2.32	U	3.14	U	3.43	U	2.51	U	2.28	U	2.26	U	2.47	U	2.54	U	2.35	U	2.45	U	2.78	U	2.570	U	2.4	U	2.48	U	3.02	U	2.55	U
Vanadium	~	~	~	24.9		28.8		21.5		16.4		30		26		28.7		23.7		48.8		31.2		20.8		15.5		34.7		32.4		12.8		20.5		22.4		27.2		25.9		35.1	
Zinc	109	10000	---	26.6		53.1		30.8		35.2		55.8		51.5		41.1		55.7		41.8		38.2		55.3		31.6		61.4		43.6		31.8		50.4		38.8		48.2		107		84.5	
Mercury by 7473																																											
Mercury	0.18	0.81	---	0.0338		1.87		1.28		0.0382	U	0.583		0.537		26.5		0.0375		0.286		1.11		0.782		0.0366	U	0.237		0.561		3.07		0.0370	U	0.227		63.6		2.16		0.0367	U
Chromium, Hexavalent																																											
Chromium, Hexavalent	1	110	---	0.535	U	0.721	U	0.766	U	0.636	U	0.557	U	0.753	U	0.822	U	0.602	U	2.36		0.542	U	0.594	U	0.610	U	0.564	U	0.588	U	0.667	U	1.04		0.577	U	0.594	U	0.726	U	1.76	
Chromium, Trivalent																																											
Chromium, Trivalent	30	180	~	11.3		22.4		13		14.1		24.8		21.9		18.7		23.2		15.8		16.6		23.1		13		25.7		18.6		13.700		19.800		16.600		20.100		44.2		32.3	
Cyanide, Total																																											
Cyanide, total	27	27	---	0.535	U	0.721	U	0.766	U	0.636	U	0.557	U	0.753	U	1.23		0.602	U	0.546	U	0.542	U	0.712		0.610	U	0.564	U	0.588	U	0.667		0.617	U	0.577	U	0.594	U	2.540		0.611	U

NOTES:
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Green shaded values exceed the UUSCO Standard
Purple shaded values exceed the UUSCO, RRSCO, and Protection of Groundwater Standards
Orange shaded values exceed the UUSCO and Protection of Groundwater Standards
Gray shaded values exceed the UUSCO and RRSCO

Q is the Qualifier Column with definitions as follows:
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
~=this indicates that no regulatory limit has been established for this analyte
--- ... this indicates that the compound was not compared to the NYSDEC PGSCO

Table 2E continued
Soil Metal Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	2SSP6 (0-2.5 ft)		2SSP6 (12.5-15 ft)		2SSP6 (15-17.5 ft)		2SSP6 (22.5-25 ft)		2SSP7 (0-2.5ft)		2SSP7 (12-14ft)		2SSP7 (14-18ft)		2SSP7 (27.5-30ft)		2SSP8 (0-2.5ft)		2SSP8 (10-12.5ft)		2SSP8 (14-16ft)		2SSP8 (25-27.5ft)		2SSP9 (0-2.5ft)		2SSP9 (10-12.5ft)		2SSP9 (12.5-15ft)		2SSP9 (25-27.5ft)		2SSP10 (0-2.5ft)		2SSP10 (12.5-15ft)		2SSP10 (18-22ft)		2SSP10 (25-27.5ft)	
Sampling Date				11/13/2023		11/13/2023		11/13/2023		11/13/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum	~	~	~	7,070		11,200		7,700		14,700		7,520		9,870		10,800		5,750		6,120		12,200		6,720		12,400		8,830		22,900		11,500		11,800		7,590		12,700		8,330		11,800	
Antimony	~	~	~	2.26	U	2.69	U	3.35	U	3.06	U	2.35	U	2.44	U	3.06	U	2.44	U	2.29	U	2.51	U	2.74	U	2.6	U	2.3	U	2.68	U	3.34	U	2.49	U	2.29	U	2.62	U	2.59	U	2.69	U
Arsenic	13	16	---	5.67		8.73		10.2		8.66		5.37		5.08		10.400		1.46	U	1.9		6.3		19.6		5.22		4.14		5.6		15.9		3.24		4.13		2.01		8.87		4.54	
Barium	350	400	---	157		143		178		50.3		130		91.9		195		43.5		57.4		135		147		79.1		96.4		86.9		232		48.1		70.3		116		136		63.4	
Beryllium	7.2	72	---	0.046	U	0.054	U	0.068	U	0.062	U	0.047	U	0.049	U	0.165		0.049	U	0.046	U	0.051	U	0.055	U	0.053	U	0.046	U	0.054	U	0.067	U	0.05	U	0.046	U	0.053	U	0.052	U	0.054	U
Cadmium	2.5	4.3	---	1.21		0.323	U	0.402	U	0.368	U	0.817		0.293	U	0.367	U	0.293	U	0.275	U	0.301	U	0.329	U	0.313	U	0.276	U	0.322	U	0.4	U	0.299	U	0.275	U	0.314	U	0.311	U	0.323	U
Calcium	~	~	~	24,900		9,230		5,380		1,830		48,200	B	19,200	B	7,270	B	119,000	B	38,000	B	11,600	B	39,500	B	1,420	B	30,900	B	3,300	B	30,400	B	1,800	B	55,100	B	25,800	B	22,900	B	1,830	B
Chromium	~	~	~	17.9		22.3		15.4		28.4		26.7		18.3		26		10.5		12.6		24.4		13.7		26.6		15.3		26.6		20.3		22.2		17.1		23		16.4		29.1	
Cobalt	~	~	~	5.77		9.33		7.74		7.9		5.63		8.45		8.4		4.7		5.03		9.38		5.88		8.55		6.1		8.05		9.9		6.26		4.94		12.3		6.45		7.54	
Copper	50	270	---	57.7		34.8		47.1		11.5		49.4		89.3		252		10.7		21.9		52.5		87.1		22.3		51.5		16		68.7		22.8		58.4		42.4		38.5		23.5	
Iron	~	~	~	14,700		17,400		11,800		24,700		15,000		19,300		16,800		7,680		11,000		19,900		20,100		20,600		12,800		20,600		16,900		14,700		12,800		20,600		13,800		18,000	
Lead	63	400	---	318	B	335	B	256	B	14.9	B	277		83.5		301		1.75		59.1	B	170	B	207	B	10.3	B	143	B	26.3	B	432	B	7.57	B	78.1	B	26	B	269	B	9.91	B
Magnesium	~	~	~	9,050		4,600		1,170		5,670		21,600		6,370		2,000		75,800		19,600		6,350		1,280		5,360		7,180		3,480		2,570		6,730		18,900		19,400		4,140		5,820	
Manganese	1600	2000	---	216		278		162		295		225		233		348		433		199		299		331		140		229		313		268		95.3		207		206		334		137	
Nickel	30	310	---	15		19.4		17.1		19.5		19.1		20		19.7		8.39		11.8		18.8		14		20.1		14.1		16.8		19.7		14.9		12.4		22.4		21.4		19.3	
Potassium	~	~	~	1,340		4,340		1,460		3,020		1,530		3,320		1,190		1,780		1,820		3,960		956		3,130		1,890		1,420		2,060		1,690		1,530		4,770		2,200		3,170	
Selenium	3.9	180	---	2.26	U	3.04		3.35	U	5.89		2.35	U	3.19		4.96		2.44	U	2.29	U	5.21		6.8		5.58		2.67		6.85		6.65		4.24		2.73		4.82		3.9		4.66	
Silver	2	180	---	0.455	U	0.542	U	0.675	U	0.618	U	0.473	U	0.493	U	0.617	U	0.492	U	0.463	U	0.506	U	0.553	U	0.525	U	0.464	U	0.54	U	0.673	U	0.502	U	0.462	U	0.528	U	0.523	U	0.543	U
Sodium	~	~	~	453		53.8	U	398		155		1,290		463		605		134		122		1,000		563		52.1	U	739		53.6	U	2,370		80.2		327		52.4	U	481		81.9	
Thallium	~	~	~	2.26	U	2.69	U	3.35	U	3.06	U	2.350	U	2.44	U	3.06	U	2.44	U	2.29	U	2.51	U	2.74	U	2.6	U	2.3	U	2.68	U	3.34	U	2.49	U	2.29	U	2.62	U	2.59	U	2.69	U
Vanadium	~	~	~	30.1		30.4		26.2		34.2		39.3		36.1		37.3		15.7		20.6		33.9		23.3		30.4		20.5		35.4		33.6		26.5		25		38.3		23.9		31.3	
Zinc	109	10000	---	42		53.4		36.2		70.2		63.5		43.1		62.8		25.4		30.3		58.2		33		66.4		36.3		65.9		45		55.6		41.8		56.1		39.5		71.1	
Mercury by 7473																																											
Mercury	0.18	0.81	---	0.281		2.13		1.37		0.0441	U	0.287		0.170		4.53		0.0351	U	0.176		0.534		1.260		0.0375	U	0.277		0.0689		12.4		0.0358	U	0.249		0.18		1.21		0.0388	U
Chromium, Hexavalent																																											
Chromium, Hexavalent	1	110	---	2.69		0.646	U	0.804	U	0.735	U	0.563	U	1.31		0.734	U	0.586	U	0.551	U	0.602	U	0.658	U	0.625	U	0.552	U	0.643	U	0.801	U	0.597	U	1.76		0.629	U	0.622	U	0.647	U
Chromium, Trivalent																																											
Chromium, Trivalent	30	180	~	15.2		22.3		15.4		28.4		NT		NT		NT		NT		12.6		24.4		13.7		26.6		15.3		26.6		20.3		22.2		15.3		23		16.4		29.1	
Cyanide, Total																																											
Cyanide, total	27	27	---	0.542	U	0.646	U	0.804	U	0.735	U	0.563	U	10.9		0.734	U	0.586	U	0.826		0.602	U	8.36		0.625	U	0.552		0.643	U	0.801	U	0.597	U	0.550	U	0.629	U	0.622	U	0.647	U

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Table 2F
Soil PFAS Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 RemedialSoil Guidance PFAS Unrestricted-April 2023	NYSDEC Part 375 RemedialSoil Guidance PFAS RestrictedResidential-April 2023	NYSDEC Part 375 RemedialSoil Guidance PFAS ProtectionOfGW-April 2023	23SP1 (0-2.5ft)		23SP1 (10-12.5ft)		23SP1 (12.5-15ft)		23SP1 (22.5-25ft)		23SP2 (0-2.5)		23SP2 (15-17.5)		23SP2 (18-20)		23SP2 (27.5-30)		23SP3 (0-2.5 ft)		23SP3 (8-12 ft)		23SP3 (12-14 ft)		23SP3 (25-30 ft)		23SP4 (0-5 ft)		23SP4 (12-14 ft)		23SP4 (14-16 ft)		23SP4 (27.5-30 ft)		23SP5 (0-2.5 ft)		23SP5 (12.5-15 ft)		23SP5 (15-17.5 ft)		23SP5 (25-27.5 ft)	
Sampling Date				11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/7/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/8/2023		11/13/2023		11/13/2023		11/13/2023		11/13/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
11CL-PF3OUdS	~	~	~	0.328	U	0.446	U	0.475	U	0.390	U	0.346	U	0.466	U	0.510	U	0.374	U	0.337	U	0.332	U	0.363	U	0.376	U	0.345	U	0.365	U	0.414	U	0.378	U	0.357	U	0.364	U	0.446	U	0.378	U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	~	~	~	0.796	U	1.080	U	1.150	U	0.946	U	0.839	U	1.130	U	1.240	U	0.908	U	0.818	U	0.806	U	0.882	U	0.914	U	0.837	U	0.885	U	1	U	0.918	U	0.866	U	0.883	U	1.080	U	0.917	U
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	~	~	~	0.627	U	0.853	U	0.908	U	0.745	U	0.662	U	0.892	U	0.977	U	0.715	U	0.645	U	0.635	U	0.695	U	0.720	U	0.659	U	0.697	U	0.792	U	0.724	U	0.682	U	0.696	U	0.854	U	0.723	U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	~	~	~	0.627	U	0.853	U	0.908	U	0.745	U	0.662	U	0.892	U	0.977	U	0.715	U	0.645	U	0.635	U	0.695	U	0.720	U	0.659	U	0.697	U	0.792	U	0.724	U	0.682	U	0.696	U	0.854	U	0.723	U
3-Perfluoroheptyl propanoic acid (FHpPA)	~	~	~	1.580	U	2.150	U	2.290	U	1.880	U	1.670	U	2.250	U	2.460	U	1.800	U	1.630	U	1.600	U	1.750	U	1.820	U	1.660	U	1.760	U	2	U	1.820	U	1.720	U	1.750	U	2.150	U	1.820	U
3-Perfluoropentyl propanoic acid (FPePA)	~	~	~	2.210	U	3.010	U	3.200	U	2.630	U	2.330	U	3.150	U	3.440	U	2.520	U	2.270	U	2.240	U	2.450	U	2.540	U	2.330	U	2.460	U	2.790	U	2.550	U	2.410	U	2.450	U	3.010	U	2.550	U
3-Perfluoropropyl propanoic acid (FPrPA)	~	~	~	0.668	U	0.909	U	0.968	U	0.794	U	0.705	U	0.951	U	1.040	U	0.762	U	0.687	U	0.677	U	0.741	U	0.767	U	0.703	U	0.743	U	0.843	U	0.771	U	0.727	U	0.742	U	0.910	U	0.770	U
9CL-PF3ONS	~	~	~	0.259	U	0.353	U	0.376	U	0.308	U	0.274	U	0.369	U	0.404	U	0.296	U	0.267	U	0.263	U	0.287	U	0.298	U	0.273	U	0.288	U	0.327	U	0.299	U	0.282	U	0.288	U	0.353	U	0.299	U
ADONA	~	~	~	0.183	U	0.250	U	0.266	U	0.218	U	0.193	U	0.261	U	0.286	U	0.209	U	0.189	U	0.186	U	0.203	U	0.211	U	0.193	U	0.204	U	0.231	U	0.212	U	0.200	U	0.204	U	0.250	U	0.211	U
HFPO-DA (Gen-X)	~	~	~	0.641	U	0.872	U	0.928	U	0.762	U	0.676	U	0.912	U	0.998	U	0.731	U	0.659	U	0.649	U	0.710	U	0.736	U	0.674	U	0.713	U	0.809	U	0.739	U	0.697	U	0.711	U	0.872	U	0.738	U
N-EtFOSA	~	~	~	0.209	U	0.284	U	0.302	U	0.248	U	0.220	U	0.297	U	0.325	U	0.238	U	0.215	U	0.211	U	0.231	U	0.240	U	0.219	U	0.232	U	0.263	U	0.241	U	0.227	U	0.232	U	0.284	U	0.240	U
N-EtFOSAA	~	~	~	0.204	U	0.278	U	0.296	U	0.243	U	0.216	U	0.291	U	0.318	U	0.233	U	0.210	U	0.207	U	0.227	U	0.235	U	0.215	U	0.227	U	0.258	U	0.236	U	0.223	U	0.227	U	0.278	U	0.236	U
N-EtFOSE	~	~	~	0.735	U	1	U	1.060	U	0.873	U	0.775	U	1.040	U	1.140	U	0.838	U	0.755	U	0.744	U	0.814	U	0.843	U	0.773	U	0.817	U	0.927	U	0.848	U	0.799	U	0.815	U	1	U	0.847	U
N-MeFOSA	~	~	~	0.190	U	0.258	U	0.275	U	0.226	U	0.200	U	0.270	U	0.295	U	0.216	U	0.195	U	0.192	U	0.210	U	0.218	U	0.200	U	0.211	U	0.239	U	0.219	U	0.206	U	0.211	U	0.258	U	0.219	U
N-MeFOSAA	~	~	~	0.156	U	0.212	U	0.226	U	0.185	U	0.165	U	0.222	U	0.243	U	0.178	U	0.160	U	0.158	U	0.173	U	0.179	U	0.164	U	0.173	U	0.197	U	0.180	U	0.170	U	0.173	U	0.212	U	0.180	U
N-MeFOSE	~	~	~	0.644	U	0.876	U	0.933	U	0.766	U	0.679	U	0.916	U	1	U	0.735	U	0.662	U	0.652	U	0.714	U	0.739	U	0.677	U	0.716	U	0.813	U	0.743	U	0.701	U	0.715	U	0.877	U	0.742	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	~	~	~	0.147	U	0.199	U	0.212	U	0.174	U	0.155	U	0.208	U	0.228	U	0.167	U	0.151	U	0.148	U	0.162	U	0.168	U	0.154	U	0.163	U	0.185	U	0.169	U	0.159	U	0.163	U	0.199	U	0.169	U
Perfluoro-1-decanesulfonic acid (PFDS)	~	~	~	0.201	U	0.274	U	0.292	U	0.239	U	0.212	U	0.286	U	0.313	U	0.230	U	0.207	U	0.204	U	0.223	U	0.231	U	0.212	U	0.224	U	0.254	U	0.232	U	0.219	U	0.223	U	0.274	U	0.232	U
Perfluoro-1-heptanesulfonic acid (PFHpS)	~	~	~	0.163	U	0.222	U	0.237	U	0.194	U	0.172	U	0.232	U	0.254	U	0.186	U	0.168	U	0.166	U	0.181	U	0.188	U	0.172	U	0.182	U	0.206	U	0.188	U	0.178	U	0.181	U	0.222	U	0.188	U
Perfluoro-1-nonanesulfonic acid (PFNS)	~	~	~	0.131	U	0.178	U	0.189	U	0.155	U	0.138	U	0.186	U	0.204	U	0.149	U	0.134	U	0.132	U	0.145	U	0.150	U	0.137	U	0.145	U	0.165	U	0.151	U	0.142	U	0.145	U	0.178	U	0.151	U
Perfluoro-1-octanesulfonamide (FOSA)	~	~	~	0.154	U	0.209	U	0.223	U	0.183	U	0.162	U	0.219	U	0.240	U	0.176	U	0.158	U	0.156	U	0.171	U	0.177	U	0.162	U	0.171	U	0.194	U	0.178	U	0.167	U	0.171	U	0.209	U	0.177	U
Perfluoro-1-pentanesulfonate (PFPeS)	~	~	~	0.165	U	0.225	U	0.240	U	0.197	U	0.175	U	0.235	U	0.258	U	0.189	U	0.170	U	0.168	U	0.183	U	0.190	U	0.174	U	0.184	U	0.209	U	0.191	U	0.180	U	0.184	U	0.225	U	0.191	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	~	~	~	0.203	U	0.277	U	0.295	U	0.242	U	0.215	U	0.289	U	0.317	U	0.232	U	0.209	U	0.206	U	0.226	U	0.234	U	0.214	U	0.226	U	0.257	U	0.235	U	0.221	U	0.226	U	0.277	U	0.234	U
Perfluoro-4-oxapentanoic acid (PFMPA)	~	~	~	0.0653	U	0.0889	U	0.0946	U	0.0777	U	0.0689	U	0.0930	U	0.102	U	0.0746	U	0.0672	U	0.0662	U	0.0724	U	0.0750	U	0.0687	U	0.0727	U	0.0825	U	0.0754	U	0.0711	U	0.0725	U	0.0890	U	0.0753	U
Perfluoro-5-oxahexanoic acid (PFMBA)	~	~	~	0.101	U	0.138	U	0.147	U	0.120	U	0.107	U	0.144	U	0.158	U	0.115	U	0.104	U	0.103	U	0.112	U	0.116	U	0.106	U	0.113	U	0.128	U	0.117	U	0.110	U	0.112	U	0.138	U	0.117	U
Perfluorobutanesulfonic acid (PFBS)	~	~	~	0.117	U	0.159	U	0.169	U	0.139	U	0.123	U	0.166	U	0.182	U	0.133	U	0.120	U	0.119	U	0.130	U	0.134	U	0.123	U	0.130	U	0.148	U	0.135	U	0.127	U	0.130	U	0.159	U	0.135	U
Perfluorodecanoic acid (PFDA)	~	~	~	0.201	U	0.274	U	0.292	U	0.239	U	0.212	U	0.286	U	0.313	U	0.230	U	0.207	U	0.204	U	0.223	U	0.231	U	0.212	U	0.224	U	0.254	U	0.232	U	0.219	U	0.223	U	0.274	U	0.232	U
Perfluorododecanesulfonic acid (PFDoS)	~	~	~	0.178	U	0.242	U	0.258	U	0.212	U	0.188	U	0.253	U	0.277	U	0.203	U	0.183	U	0.180	U	0.197	U	0.205	U	0.187	U	0.198	U	0.225	U	0.206	U	0.194	U	0.198	U	0.242	U	0.205	U
Perfluorododecanoic acid (PFDoA)	~	~	~	0.172	U	0.234	U	0.249	U	0.204	U	0.181	U	0.244	U	0.268	U	0.196	U	0.177	U	0.174	U	0.190	U	0.197	U	0.181	U	0.191	U	0.217	U	0.198	U	0.187	U	0.191	U	0.234	U	0.198	U
Perfluoroheptanoic acid (PFHpA)	~	~	~	0.111	U	0.151	U	0.160	U	0.132	U	0.117	U	0.157	U	0.172	U	0.126	U	0.114	U	0.112	U	0.123	U	0.127	U	0.116	U	0.123	U	0.140	U	0.128	U	0.120	U	0.123	U	0.151	U	0.128	U
Perfluorohexanesulfonic acid (PFHxS)	~	~	~	0.189	U	0.257	U	0.273	U	0.224	U	0.199	U	0.268	U	0.294	U	0.215	U	0.194	U	0.191	U	0.209	U	0.217	U	0.198	U	0.210	U	0.238	U	0.218	U	0.205	U	0.209	U	0.257	U	0.217	U
Perfluorohexanoic acid (PFHxA)	~	~	~	**0.0566**	J	0.0760	U	0.0809	U	0.0664	U	0.0589	U	0.0795	U	**0.0956**	J	0.0637	U	0.0574	U	0.0566	U	0.0619	U	0.0641	U	**0.0684**	J	0.0621	U	0.0705	U	0.0644	U	**0.0765**	J	**0.0928**	J	0.0760	U	0.0644	U
Perfluoro-n-butanoic acid (PFBA)	~	~	~	0.115	U	0.156	U	0.166	U	0.137	U	0.121	U	0.163	U	0.179	U	0.131	U	0.118	U	0.116	U	0.127	U	0.132	U	0.121	U	0.128	U	0.145	U	0.133	U	0.125	U	0.127	U	0.156	U	**0.267**	J
Perfluorononanoic acid (PFNA)	~	~	~	0.199	U	0.271	U	0.289	U	0.237	U	0.210	U	0.283	U	0.310	U	0.227	U	0.205	U	0.202	U	0.221	U	0.229	U	0.209	U	0.222	U	0.251	U	0.230	U	0.217	U	0.221	U	0.271	U	0.230	U
Perfluorooctanesulfonic acid (PFOS)	0.88	44	1.00	**2.64**		**0.378**		0.255	U	0.209	U	**0.253**		**0.597**		0.274	U	0.201	U	**2.38**		**1.38**		0.195	U	0.202	U	0.185	U	0.196	U	0.222	U	0.203	U	**0.911**		0.195	U	0.240	U	0.203	U
Perfluorooctanoic acid (PFOA)	0.66	33	0.80	0.181	U	0.247	U	0.263	U	0.215	U	0.191	U	0.258	U	0.282	U	0.207	U	**0.201**	J	0.184	U	0.201	U	0.208	U	0.191	U	0.202	U	0.229	U	0.209	U	0.197	U	0.201	U	0.247	U	0.209	U
Perfluoropentanoic acid (PFPeA)	~	~	~	0.115	U	0.156	U	0.166	U	0.137	U	0.121	U	0.163	U	0.179	U	0.131	U	0.118	U	0.116	U	0.127	U	0.132	U	**0.144**	J	0.128	U	0.145	U	0.133	U	0.125	U	0.127	U	0.156	U	0.132	U
Perfluorotetradecanoic acid (PFTA)	~	~	~	0.109	U	0.148	U	0.157	U	0.129	U	0.115	U	0.154	U	0.169	U	0.124	U	0.112	U	0.110	U	0.120	U	0.125	U	0.114	U	0.121	U	0.137	U	0.125	U	0.118	U	0.120	U	0.148	U	0.125	U
Perfluorotridecanoic acid (PFTrDA)	~	~	~	0.132	U	0.179	U	0.191	U	0.157	U	0.139	U	0.187	U	0.205	U	0.150	U	0.135	U	0.133	U	0.146	U	0.151	U	0.139	U	0.147	U	0.166	U	0.152	U	0.143	U	0.146	U	0.179	U	0.152	U
Perfluoroundecanoic acid (PFUnA)	~	~	~	0.209	U	0.284	U	0.302	U	0.248	U	0.220	U	0.297	U	0.325	U	0.238	U	0.215	U	0.211	U	0.231	U	0.240	U	0.219	U	0.232	U	0.263	U	0.241	U	0.227	U	0.232	U	0.284	U	0.240	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation
Green shaded values exceed the UUSCO Standard
Orange shaded values exceed the UUSCO and Protection of Groundwater Standards

Q is the Qualifier Column with definitions as follows:
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
~=this indicates that no regulatory limit has been established for this analyte

Table 2F continued
Soil PFAS Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC Part 375 RemedialSoil Guidance PFAS Unrestricted-April 2023	NYSDEC Part 375 RemedialSoil Guidance PFAS RestrictedResidential-April 2023	NYSDEC Part 375 RemedialSoil Guidance PFAS ProtectionOfGW-April 2023	23SP6 (0-2.5 ft)		23SP6 (12.5-15 ft)		23SP6 (15-17.5 ft)		23SP6 (22.5-25 ft)		23SP7 (0-2.5ft)		23SP7 (12-14ft)		23SP7 (14-18ft)		23SP7 (27.5-30ft)		23SP8 (0-2.5ft)		23SP8 (10-12.5ft)		23SP8 (14-16ft)		23SP8 (25-27.5ft)		23SP9 (0-2.5ft)		23SP9 (10-12.5ft)		23SP9 (12.5-15ft)		23SP9 (25-27.5ft)		23SP10 (0-2.5ft)		23SP10 (12.5-15ft)		23SP10 (18-22ft)		23SP10 (25-27.5ft)	
Sampling Date				11/13/2023		11/13/2023		11/13/2023		11/13/2023		11/9/2023		11/9/2023		11/9/2023		11/9/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023		11/6/2023	
Client Matrix				Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Unit				ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg		ug/kg	
Compound				Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
11CL-PF3OUdS	~	~	~	0.337	U	0.399	U	0.493	U	0.450	U	0.350	U	0.361	U	0.454	U	0.358	U	0.341	U	0.370	U	0.402	U	0.388	U	0.340	U	0.398	U	0.492	U	0.365	U	0.337	U	0.387	U	0.384	U	0.397	U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	~	~	~	0.817	U	0.969	U	1.200	U	1.090	U	0.850	U	0.877	U	1.100	U	0.869	U	0.827	U	0.899	U	0.977	U	0.942	U	0.826	U	0.965	U	1.190	U	0.886	U	0.819	U	0.940	U	0.932	U	0.963	U
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	~	~	~	0.644	U	0.764	U	0.943	U	0.861	U	0.670	U	0.691	U	0.869	U	0.685	U	0.652	U	0.708	U	0.770	U	0.743	U	0.651	U	0.761	U	0.942	U	0.698	U	0.645	U	0.741	U	0.735	U	0.759	U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	~	~	~	0.644	U	0.764	U	0.943	U	0.861	U	0.670	U	0.691	U	0.869	U	0.685	U	0.652	U	0.708	U	0.770	U	0.743	U	0.651	U	0.761	U	0.942	U	0.698	U	0.645	U	0.741	U	0.728	U	0.759	U
3-Perfluoroheptyl propanoic acid (FHpPA)	~	~	~	1.620	U	1.930	U	2.380	U	2.170	U	1.690	U	1.740	U	2.190	U	1.730	U	1.640	U	1.790	U	1.940	U	1.870	U	1.640	U	1.920	U	2.370	U	1.830	U	1.630	U	1.870	U	1.830	U	1.910	U
3-Perfluoropentyl propanoic acid (FPePA)	~	~	~	2.270	U	2.690	U	3.330	U	3.040	U	2.360	U	2.440	U	3.060	U	2.410	U	2.300	U	2.500	U	2.710	U	2.620	U	2.290	U	2.680	U	3.320	U	2.460	U	2.270	U	2.610	U	2.570	U	2.680	U
3-Perfluoropropyl propanoic acid (FPrPA)	~	~	~	0.686	U	0.814	U	1.010	U	0.918	U	0.714	U	0.736	U	0.925	U	0.730	U	0.694	U	0.755	U	0.820	U	0.791	U	0.693	U	0.811	U	1	U	0.744	U	0.687	U	0.789	U	0.775	U	0.809	U
9CL-PF3ONS	~	~	~	0.266	U	0.316	U	0.390	U	0.356	U	0.277	U	0.286	U	0.359	U	0.283	U	0.269	U	0.293	U	0.318	U	0.307	U	0.269	U	0.315	U	0.389	U	0.289	U	0.267	U	0.306	U	0.301	U	0.314	U
ADONA	~	~	~	0.188	U	0.223	U	0.276	U	0.252	U	0.196	U	0.202	U	0.254	U	0.200	U	0.191	U	0.207	U	0.225	U	0.217	U	0.190	U	0.222	U	0.275	U	0.204	U	0.189	U	0.217	U	0.213	U	0.222	U
HFPO-DA (Gen-X)	~	~	~	0.658	U	0.780	U	0.964	U	0.880	U	0.685	U	0.706	U	0.888	U	0.700	U	0.666	U	0.724	U	0.786	U	0.759	U	0.665	U	0.777	U	0.962	U	0.714	U	0.659	U	0.757	U	0.743	U	0.776	U
N-EtFOSA	~	~	~	0.214	U	0.254	U	0.314	U	0.287	U	0.223	U	0.230	U	0.289	U	0.228	U	0.217	U	0.236	U	0.256	U	0.247	U	0.217	U	0.253	U	0.313	U	0.232	U	0.215	U	0.247	U	0.242	U	0.253	U
N-EtFOSAA	~	~	~	0.210	U	0.249	U	0.308	U	0.281	U	0.219	U	0.225	U	0.283	U	0.223	U	0.212	U	0.231	U	0.251	U	0.242	U	0.212	U	0.248	U	0.307	U	0.228	U	0.210	U	0.242	U	0.237	U	0.248	U
N-EtFOSE	~	~	~	0.754	U	0.895	U	1.100	U	1.010	U	0.785	U	0.810	U	1.020	U	0.802	U	0.763	U	0.830	U	0.902	U	0.870	U	0.762	U	0.891	U	1.100	U	0.818	U	0.756	U	0.868	U	0.852	U	0.889	U
N-MeFOSA	~	~	~	0.195	U	0.231	U	0.285	U	0.261	U	0.203	U	0.209	U	0.263	U	0.207	U	0.197	U	0.214	U	0.233	U	0.225	U	0.197	U	0.230	U	0.285	U	0.211	U	0.195	U	0.224	U	0.220	U	0.230	U
N-MeFOSAA	~	~	~	0.160	U	0.190	U	0.235	U	0.214	U	0.167	U	0.172	U	0.216	U	0.170	U	0.162	U	0.176	U	0.191	U	0.185	U	0.162	U	0.189	U	0.234	U	0.174	U	0.160	U	0.184	U	0.181	U	0.189	U
N-MeFOSE	~	~	~	0.661	U	0.784	U	0.969	U	0.884	U	0.688	U	0.710	U	0.892	U	0.703	U	0.669	U	0.727	U	0.790	U	0.763	U	0.668	U	0.781	U	0.967	U	0.717	U	0.662	U	0.761	U	0.747	U	0.780	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	~	~	~	0.150	U	0.178	U	0.220	U	0.201	U	0.157	U	0.161	U	0.203	U	0.160	U	0.152	U	0.165	U	0.180	U	0.173	U	0.152	U	0.178	U	0.220	U	0.163	U	0.151	U	0.173	U	0.170	U	0.177	U
Perfluoro-1-decanesulfonic acid (PFDS)	~	~	~	0.207	U	0.245	U	0.303	U	0.276	U	0.215	U	0.222	U	0.279	U	0.220	U	0.209	U	0.227	U	0.247	U	0.238	U	0.209	U	0.244	U	0.302	U	0.224	U	0.207	U	0.238	U	0.234	U	0.244	U
Perfluoro-1-heptanesulfonic acid (PFHpS)	~	~	~	0.168	U	0.199	U	0.246	U	0.224	U	0.175	U	0.180	U	0.226	U	0.178	U	0.170	U	0.185	U	0.200	U	0.193	U	0.170	U	0.198	U	0.245	U	0.182	U	0.168	U	0.193	U	0.190	U	0.198	U
Perfluoro-1-nonanesulfonic acid (PFNS)	~	~	~	0.134	U	0.159	U	0.197	U	0.179	U	0.140	U	0.144	U	0.181	U	0.143	U	0.136	U	0.148	U	0.160	U	0.155	U	0.136	U	0.159	U	0.196	U	0.146	U	0.134	U	0.154	U	0.152	U	0.158	U
Perfluoro-1-octanesulfonamide (FOSA)	~	~	~	0.158	U	0.187	U	0.231	U	0.211	U	0.164	U	0.170	U	0.213	U	0.168	U	0.160	U	0.174	U	0.189	U	0.182	U	0.160	U	0.187	U	0.231	U	0.171	U	0.158	U	0.182	U	0.179	U	0.186	U
Perfluoro-1-pentanesulfonate (PFPeS)	~	~	~	0.170	U	0.202	U	0.249	U	0.227	U	0.177	U	0.182	U	0.229	U	0.181	U	0.172	U	0.187	U	0.203	U	0.196	U	0.172	U	0.201	U	0.248	U	0.184	U	0.170	U	0.195	U	0.192	U	0.200	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	~	~	~	0.209	U	0.248	U	0.306	U	0.279	U	0.217	U	0.224	U	0.282	U	0.222	U	0.211	U	0.230	U	0.250	U	0.241	U	0.211	U	0.247	U	0.305	U	0.227	U	0.209	U	0.240	U	0.236	U	0.246	U
Perfluoro-4-oxapentanoic acid (PFMPA)	~	~	~	0.0671	U	0.0796	U	0.0983	U	0.0897	U	0.0698	U	0.0720	U	0.0905	U	0.0713	U	0.0679	U	0.0738	U	0.0802	U	0.0774	U	0.0678	U	0.0793	U	0.0981	U	0.0728	U	0.0672	U	0.0772	U	0.0758	U	0.0791	U
Perfluoro-5-oxahexanoic acid (PFMBA)	~	~	~	0.104	U	0.123	U	0.152	U	0.139	U	0.108	U	0.111	U	0.140	U	0.110	U	0.105	U	0.114	U	0.124	U	0.120	U	0.105	U	0.123	U	0.152	U	0.113	U	0.104	U	0.120	U	0.117	U	0.122	U
Perfluorobutanesulfonic acid (PFBS)	~	~	~	0.120	U	0.142	U	0.176	U	0.161	U	0.125	U	0.129	U	0.162	U	0.128	U	0.122	U	0.132	U	0.144	U	0.139	U	0.121	U	0.142	U	0.176	U	0.130	U	0.120	U	0.138	U	0.136	U	0.142	U
Perfluorodecanoic acid (PFDA)	~	~	~	0.207	U	0.245	U	0.303	U	0.276	U	0.215	U	0.222	U	0.279	U	0.220	U	0.209	U	0.227	U	0.247	U	0.238	U	0.209	U	0.244	U	0.302	U	0.224	U	0.207	U	0.238	U	0.234	U	0.244	U
Perfluorododecanesulfonic acid (PFDoS)	~	~	~	0.183	U	0.217	U	0.268	U	0.245	U	0.190	U	0.196	U	0.247	U	0.194	U	0.185	U	0.201	U	0.219	U	0.211	U	0.185	U	0.216	U	0.267	U	0.198	U	0.183	U	0.210	U	0.207	U	0.216	U
Perfluorododecanoic acid (PFDoA)	~	~	~	0.176	U	0.209	U	0.258	U	0.236	U	0.184	U	0.189	U	0.238	U	0.188	U	0.178	U	0.194	U	0.211	U	0.203	U	0.178	U	0.208	U	0.258	U

Table 3A
Groundwater Volatile Organic Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	23MW1		23MW2		23MW3		23MW4		23MW5		23MW6		23MW7		23MW8		23MW9		23MW10	
Sampling Date		11/17/2023		11/17/2023		11/17/2023		11/21/2023		11/21/2023		11/21/2023		11/21/2023		11/17/2023		11/17/2023		11/17/2023	
Client Matrix		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Unit		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, 8260 - Comprehensive																					
1,1,1,2-Tetrachloroethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,1,1-Trichloroethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,1,2,2-Tetrachloroethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,1,2-Trichloroethane	1	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,1-Dichloroethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,1-Dichloroethylene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2,3-Trichlorobenzene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2,3-Trichloropropane	0.04	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2,4-Trichlorobenzene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2,4-Trimethylbenzene	5	**110**	**D**	**880**	**D**	**83**	**D**	**62**	**D**	**63**	**D**	**2.40**	**JD**	**21**		**3.50**	**JD**	**14**	**D**	**160**	**D**
1,2-Dibromo-3-chloropropane	0.04	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2-Dibromoethane	0.0006	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2-Dichlorobenzene	3	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2-Dichloroethane	0.6	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,2-Dichloropropane	1	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,3,5-Trimethylbenzene	5	**34**		**260**	**D**	**27**		**38**	**D**	**43**	**D**	**1.50**	**JD**	**54**		2	U	**14**	**D**	**52**	**D**
1,3-Dichlorobenzene	3	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,4-Dichlorobenzene	3	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
1,4-Dioxane	0.35	40	U	2,000	U	40	U	400	U	200	U	200	U	40	U	400	U	1,000	U	2,000	U
2-Butanone	50	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
2-Hexanone	50	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
4-Methyl-2-pentanone	~	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Acetone	50	1	U	50	U	1	U	**38**	**D**	5	U	5	U	1	U	**15**	**JD**	25	U	50	U
Acrolein	~	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Acrylonitrile	~	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Benzene	1	**49**		**760**	**D**	**5.500**		**74**	**D**	**64**	**D**	**22**	**D**	0.20	U	2	U	5	U	10	U
Bromochloromethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Bromodichloromethane	50	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Bromoform	50	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Bromomethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Carbon disulfide	~	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Carbon tetrachloride	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Chlorobenzene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Chloroethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Chloroform	7	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Chloromethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
cis-1,2-Dichloroethylene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
cis-1,3-Dichloropropylene	0.4	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Cyclohexane	~	**65**		**590**	**D**	**47**		**160**	**D**	**210**	**D**	**38**	**D**	**74**	**D**	**16**	**D**	**84**	**D**	**88**	**D**
Dibromochloromethane	50	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Dibromomethane	~	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Dichlorodifluoromethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Ethyl Benzene	5	**75**	**D**	**1,200**	**D**	**42**		**65**	**D**	**61**	**D**	**2.6**	**D**	**35**		2	U	**12**	**JD**	**100**	**D**
Hexachlorobutadiene	0.5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Isopropylbenzene	5	**8.4**		**86**	**D**	**6**		**17**	**D**	**33**	**D**	**22**	**D**	**9.2**		2	U	**10**	**JD**	**10**	**JD**
Methyl acetate	~	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Methyl tert-butyl ether (MTBE)	10	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Methylcyclohexane	~	**80**		**370**	**D**	**67**		**150**	**D**	**280**	**D**	**34**	**D**	**85**	**D**	**62**	**D**	**100**	**D**	**68**	**D**
Methylene chloride	5	1	U	50	U	1	U	10	U	5	U	5	U	1	U	10	U	25	U	50	U
n-Butylbenzene	5	**3.10**		**46**	**D**	**3.70**		**4.80**	**JD**	**9.8**	**D**	**10**	**D**	**4.7**		2	U	**35**	**D**	10	U
n-Propylbenzene	5	**21**		**230**	**D**	**16**		**37**	**D**	**82**	**D**	**21**	**D**	**24**		**4.30**	**JD**	**20**	**D**	**26**	**D**
o-Xylene	5	**19**		**40**	**D**	**4.80**		**11**	**D**	**15**	**D**	**1.40**	**JD**	**3.2**		**2.20**	**JD**	5	U	**34**	**D**
p- & m- Xylenes	~	**150**		**340**	**D**	**49**		**78**	**D**	**40**	**D**	**4**	**JD**	**11**		5	U	**14**	**JD**	**240**	**D**
p-Isopropyltoluene	5	**2.10**		10	U	**1.80**		**2.70**	**JD**	**7.8**	**D**	**1.30**	**JD**	**3.80**		2	U	5	U	10	U
sec-Butylbenzene	5	**2.40**		**16**	**JD**	**1.80**		**4.10**	**JD**	**5.9**	**D**	**6.9**	**D**	**2.60**		2	U	5	U	10	U
Styrene	5	**0.59**		10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
tert-Butyl alcohol (TBA)	~	0.50	U	25	U	0.50	U	5	U	2.50	U	2.500	U	0.50	U	5	U	12	U	25	U
tert-Butylbenzene	5	0.20	U	10	U	0.20	U	2	U	1	U	**1.40**	**JD**	**0.31**	**J**	2	U	5	U	10	U
Tetrachloroethylene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Toluene	5	**26**		**150**	**D**	**4.90**		**12**	**D**	**16**	**D**	**2.80**	**D**	**2.60**		2	U	5	U	10	U
trans-1,2-Dichloroethylene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
trans-1,3-Dichloropropylene	0.4	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
trans-1,4-dichloro-2-butene	~	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Trichloroethylene	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Trichlorofluoromethane	5	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Vinyl Chloride	2	0.20	U	10	U	0.20	U	2	U	1	U	1	U	0.20	U	2	U	5	U	10	U
Xylenes, Total	5	**170**		**380**	**D**	**54**		**89**	**D**	**55**	**D**	**5.4**	**JD**	**15**		6	U	15	U	**270**	**D**

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Orange shaded values exceed the NYSDEC TOGS Standards and Guidance Values

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 3A continued
Field and Trip Blank Volatile Organic Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID		Trip Blank 11-06-23		Trip Blank 11-07-23		Trip Blank		Trip Blank		Trip Blank		Field Blank		Trip Blank		Field Blank		Field Blank		Trip Blank	
Sampling Date	NYSDEC TOGS	11/6/2023		11/7/2023		11/8/2023		11/9/2023		11/13/2023		11/13/2023		11/17/2023		11/17/2023		11/21/2023		11/21/2023	
Client Matrix	Standards and	Water		Water		Water		Water		Water		Water		Water		Water		Ground Water		Ground Water	
Unit	Guidance Values - GA	ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,1-Trichloroethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,2,2-Tetrachloroethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,2-Trichloroethane	1	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1-Dichloroethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1-Dichloroethylene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2,3-Trichlorobenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2,3-Trichloropropane	0.04	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2,4-Trichlorobenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2,4-Trimethylbenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2-Dibromo-3-chloropropane	0.04	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2-Dibromoethane	0.0006	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2-Dichlorobenzene	3	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2-Dichloroethane	0.6	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,2-Dichloropropane	1	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,3,5-Trimethylbenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,3-Dichlorobenzene	3	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,4-Dichlorobenzene	3	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,4-Dioxane	0.35	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U	40	U
2-Butanone	50	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
2-Hexanone	50	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
4-Methyl-2-pentanone	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Acetone	50	1	U	1	U	1	U	1	U	1	U	1	U	**1.800**	**J**	1	U	1	U	1	U
Acrolein	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Acrylonitrile	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Benzene	1	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Bromochloromethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Bromodichloromethane	50	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	**0.580**		0.200	U	0.200	U
Bromoform	50	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Bromomethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Carbon disulfide	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Carbon tetrachloride	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Chlorobenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Chloroethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Chloroform	7	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	**7.900**		0.200	U	0.200	U
Chloromethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	**0.570**		**1.100**	
cis-1,2-Dichloroethylene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
cis-1,3-Dichloropropylene	0.4	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Cyclohexane	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Dibromochloromethane	50	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Dibromomethane	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Dichlorodifluoromethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Ethyl Benzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Hexachlorobutadiene	0.5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Isopropylbenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Methyl acetate	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Methyl tert-butyl ether (MTBE)	10	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Methylcyclohexane	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Methylene chloride	5	1	U	1	U	1	U	1	U	1	U	1	U	**1**	**J**	1	U	1	U	1	U
n-Butylbenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
n-Propylbenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
o-Xylene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
p- & m- Xylenes	~	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
p-Isopropyltoluene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
sec-Butylbenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Styrene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
tert-Butyl alcohol (TBA)	~	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
tert-Butylbenzene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Tetrachloroethylene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Toluene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
trans-1,2-Dichloroethylene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
trans-1,3-Dichloropropylene	0.4	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
trans-1,4-dichloro-2-butene	~	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Trichloroethylene	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Trichlorofluoromethane	5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Vinyl Chloride	2	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
Xylenes, Total	5	0.600	U	0.600	U	0.600	U	0.600	U	0.600	U	0.600	U	0.600	U	0.600	U	0.600	U	0.600	U

NOTES:
Any Regulatory Exceedences are color coded by Regulation
Orange shaded values exceed the NYSDEC TOGS Standards and Guidance Values

Q is the Qualifier Column with definitions as follows:
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
~=this indicates that no regulatory limit has been established for this analyte

Table 3B
Groundwater Semi Volatile Organic Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	23MW1		23MW2		23MW3		23MW4		23MW5		23MW6		23MW7		23MW8		23MW9		23MW10	
Sampling Date		11/17/2023		11/17/2023		11/17/2023		11/21/2023		11/21/2023		11/21/2023		11/21/2023		11/17/2023		11/17/2023		11/17/2023	
Client Matrix		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Unit		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous																					
1,4-Dioxane	0.35	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U	0.30	U
SVOA, 8270 LOW MASTER																					
1,1-Biphenyl	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
1,2,4,5-Tetrachlorobenzene	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
1,2,4-Trichlorobenzene	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
1,2-Dichlorobenzene	3	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
1,2-Diphenylhydrazine (as Azobenzene)	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
1,3-Dichlorobenzene	3	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
1,4-Dichlorobenzene	3	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,3,4,6-Tetrachlorophenol	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,4,5-Trichlorophenol	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,4,6-Trichlorophenol	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,4-Dichlorophenol	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,4-Dimethylphenol	50	2.50	U	2.50	U	2.50	U	**2.81**	**J**	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,4-Dinitrophenol	10	**3.48**	**J**	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,4-Dinitrotoluene	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2,6-Dinitrotoluene	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2-Chloronaphthalene	10	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2-Chlorophenol	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2-Methylnaphthalene	~	2.50	U	**16.80**		2.50	U	2.78	U	**30.20**		2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2-Methylphenol	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2-Nitroaniline	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
2-Nitrophenol	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
3- & 4-Methylphenols	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
3,3-Dichlorobenzidine	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
3-Nitroaniline	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
4,6-Dinitro-2-methylphenol	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
4-Bromophenyl phenyl ether	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
4-Chloro-3-methylphenol	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
4-Chloroaniline	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
4-Chlorophenyl phenyl ether	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
4-Nitroaniline	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
4-Nitrophenol	1	5	U	5	U	5	U	5.56	U	5.26	U	5	U	5	U	5	U	5	U	5	U
Acetophenone	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Aniline	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Benzaldehyde	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Benzidine	~	5	U	5	U	5	U	5.56	U	5.26	U	5	U	5	U	5	U	5	U	5	U
Benzoic acid	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Benzyl alcohol	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Benzyl butyl phthalate	50	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Bis(2-chloroethoxy)methane	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Bis(2-chloroethyl)ether	1	1	U	1	U	1	U	1.11	U	1.05	U	1	U	1	U	1	U	1	U	1	U
Bis(2-chloroisopropyl)ether	5	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Caprolactam	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Carbazole	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Dibenzofuran	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Diethyl phthalate	50	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Dimethyl phthalate	50	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Di-n-butyl phthalate	50	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Di-n-octyl phthalate	50	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Hexachlorocyclopentadiene	5	5	U	5	U	5	U	5.56	U	5.26	U	5	U	5	U	5	U	5	U	5	U
Isophorone	50	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
N-nitroso-di-n-propylamine	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
N-Nitrosodiphenylamine	50	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Phenol	1	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
Resorcinol	~	2.50	U	2.50	U	2.50	U	2.78	U	2.63	U	2.50	U	2.50	U	2.50	U	2.50	U	2.50	U
SVOA, 8270 SIM MASTER																					
Acenaphthene	20	0.05	U	**0.21**		0.05	U	0.556	U	2.63	U	**0.24**	**D**	**0.12**	**D**	0.05	U	**0.10**		**0.37**	
Acenaphthylene	~	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	**0.10**	**D**	0.10	U	0.05	U	0.05	U	0.05	U
Anthracene	50	0.05	U	**0.10**		0.05	U	0.556	U	**2.63**	**D**	0.10	U	0.10	U	0.05	U	0.05	U	0.30	
Benzo(a)anthracene	0.002	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	**0.08**	
Benzo(a)pyrene	0.002	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	0.05	U
Benzo(b)fluoranthene	0.002	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	0.05	U
Benzo(g,h,i)perylene	~	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	0.05	U
Benzo(k)fluoranthene	0.002	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	0.05	U
Bis(2-ethylhexyl)phthalate	5	0.50	U	0.50	U	0.50	U	**26.3**	**D**	26.30	U	1	U	1	U	0.50	U	0.50	U	**0.61**	
Chrysene	0.002	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	**0.09**	
Dibenzo(a,h)anthracene	~	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	0.05	U
Fluoranthene	50	0.05	U	**0.11**		**0.06**		0.556	U	2.63	U	**0.16**	**D**	**0.18**	**D**	0.05	U	**0.05**		**0.44**	
Fluorene	50	0.05	U	**0.14**		0.05	U	0.556	U	2.63	U	**0.14**	**D**	0.10	U	**0.31**		0.05	U	0.05	U
Hexachlorobenzene	0.04	0.02	U	0.02	U	0.02	U	0.222	U	1.05	U	0.04	U	0.04	U	0.02	U	0.02	U	0.02	U
Hexachlorobutadiene	0.5	0.50	U	0.50	U	0.50	U	5.56	U	26.30	U	1	U	1	U	0.50	U	0.50	U	0.50	U
Hexachloroethane	5	0.50	U	0.50	U	0.50	U	5.56	U	26.30	U	1	U	1	U	0.50	U	0.50	U	0.50	U
Indeno(1,2,3-cd)pyrene	0.002	0.05	U	0.05	U	0.05	U	0.556	U	2.63	U	0.10	U	0.10	U	0.05	U	0.05	U	0.05	U
Naphthalene	10	**0.12**		**49.6**	**D**	**0.20**		0.556	U	**75.3**	**D**	**2.16**	**D**	**0.56**	**D**	**0.20**		**0.69**		**0.48**	
Nitrobenzene	0.4	0.25	U	0.25	U	0.25	U	2.78	U	13.20	U	0.50	U	0.50	U	0.25	U	0.25	U	0.25	U
N-Nitrosodimethylamine	~	0.50	U	0.50	U	0.50	U	5.56	U	26.30	U	1	U	1	U	0.50	U	0.50	U	0.50	U
Phenanthrene	50	0.05	U	**0.28**		**0.10**		0.556	U	**2.63**	**D**	**0.30**	**D**	0.10	U	0.05	U	0.05	U	**0.29**	
Pyrene	50	**0.05**		**0.08**		0.05	U	0.556	U	2.63	U	**0.12**	**D**	**0.22**	**D**	**0.11**		0.05	U	**0.31**	

NOTES:
Any Regulatory Exceedences are color coded by Regulation
Orange shaded values exceed the NYSDEC TOGS Standards and Guidance Values

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

Table 3C

Groundwater Pesticide Compound Analytical Results

100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	23MW1		23MW2		23MW3		23MW4		23MW5		23MW6		23MW7		23MW8		23MW9		23MW10	
Sampling Date		11/17/2023		11/17/2023		11/17/2023		11/21/2023		11/21/2023		11/21/2023		11/21/2023		11/17/2023		11/17/2023		11/17/2023	
Client Matrix		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Unit		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
4,4'-DDD	0.3	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
4,4'-DDE	0.2	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
4,4'-DDT	0.2	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Aldrin	~	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
alpha-BHC	0.01	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
alpha-Chlordane	~	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
beta-BHC	0.04	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Chlordane, total	0.05	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U	0.0200	U
delta-BHC	0.04	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Dieldrin	0.004	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
Endosulfan I	~	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Endosulfan II	~	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Endosulfan sulfate	~	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Endrin	~	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Endrin aldehyde	5	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Endrin ketone	5	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
gamma-BHC (Lindane)	0.05	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
gamma-Chlordane	~	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Heptachlor	0.04	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Heptachlor epoxide	0.03	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Methoxychlor	35	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U	0.00400	U
Toxaphene	0.06	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U	0.100	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 3D

Groundwater PCB Compound Analytical Results

100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	23MW1		23MW2		23MW3		23MW4		23MW5		23MW6		23MW7		23MW8		23MW9		23MW10	
Sampling Date		11/17/2023		11/17/2023		11/17/2023		11/21/2023		11/21/2023		11/21/2023		11/21/2023		11/17/2023		11/17/2023		11/17/2023	
Client Matrix		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Unit		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L		ug/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aroclor 1016	~	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Aroclor 1221	~	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Aroclor 1232	~	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Aroclor 1242	~	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Aroclor 1248	~	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Aroclor 1254	~	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Aroclor 1260	~	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U
Total PCBs	0.09	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.0500	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

Table 3E
Groundwater Metals Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYSDEC TOGS Standards and Guidance Values - GA	23MW1		23MW2		23MW3		23MW4		23MW5		23MW6		23MW7		23MW8		23MW9		23MW10	
Sampling Date		11/17/2023		11/17/2023		11/17/2023		11/21/2023		11/21/2023		11/21/2023		11/21/2023		11/17/2023		11/17/2023		11/17/2023	
Client Matrix		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Unit		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Aluminum by EPA 6010																					
Aluminum	~	NT		581		NT		NT		NT		NT		NT		NT		NT		NT	
Metals, Target Analyte, ICP																					
Aluminum	~	**548**		**581**		**584**		**153**		**127**		**336**		**388**		**145**		**151**		**256**	
Barium	1000	**219**		**170**		**198**		**122**		**209**		**198**		**147**		**150**		**308**		**326**	
Calcium	~	**222,000**	**B**	**155,000**	**B**	**200,000**	**B**	**157,000**		**116,000**		**264,000**		**170,000**		**132,000**	**B**	**234,000**	**B**	**246,000**	**B**
Chromium	50	5.56	U	6.1		5.6	U	5.6	U	5.6	U	5.6	U	5.6	U	5.6	U	5.6	U	5.56	U
Cobalt	~	4.44	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U	4.4	U	4.44	U
Copper	200	22.20	U	22.2	U	22.2	U	22.2	U	22.2	U	22.2	U	22.2	U	22.2	U	22.2	U	22.20	U
Iron	~	**7,360**		**4,630**		**5,010**		**2,010**		**10,200**		**848**		**7,660**		**8,020**		**21,200**		**10,700**	
Lead	25	**112**		**29.3**		**77.7**		**32.7**	**B**	**19.40**	**B**	**14.80**	**B**	**52.6**	**B**	**16.40**		**14**		**23.80**	
Magnesium	35000	**37,600**		**19,300**		**34,700**		**22,700**		**40,900**		**31,700**		**25,500**		**15,400**		**50,300**		**48,000**	
Manganese	300	**613**		**1,270**		**648**		**320**		**792**		**1,340**		**658**		**662**		**1,240**		**855**	
Nickel	100	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U
Potassium	~	**25,700**		**20,000**		**25,400**		**22,700**		**34,600**		**22,100**		**18,800**		**17,200**		**33,800**		**32,900**	
Silver	50	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U
Sodium	20000	**116,000**	**B**	**37,000**	**B**	**94,400**	**B**	**68,800**		**188,000**		**36,000**		**41,100**		**29,100**	**B**	**190,000**	**B**	**227,000**	**B**
Vanadium	~	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U
Zinc	2000	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U
Metals, Target Analyte, ICP Dissolved																					
Aluminum	~	**69.50**		**63.50**		**60.80**		**175**		55.60	U	**82.20**		**95.80**		**55.60**	**U**	**73.50**		**77**	
Barium	1000	**94.60**		**89.10**		**76.60**		**73.50**		**84.50**		**181**		**82.80**		**77.10**		**142**		**165**	
Calcium	~	**212,000**		**149,000**		**177,000**		**174,000**		**122,000**		**263,000**		**166,000**		**123,000**		**217,000**		**230,000**	
Chromium	50	**5.70**		**7.80**		**6.02**		5.56	U	5.56	U	5.56	U	5.56	U	**5.84**		**5.78**		**5.84**	
Cobalt	~	4.44	U	4.44	U	4.44	U	4.44	U	4.44	U	4.44	U	4.44	U	4.44	U	4.44	U	4.44	U
Copper	200	22.20	U	22.20	U	22.20	U	22.20	U	22.20	U	22.20	U	22.20	U	22.20	U	22.20	U	22.20	U
Iron	~	278	U	278	U	278	U	278	U	278	U	278	U	278	U	278	U	278	U	278	U
Lead	25	5.56	U	**5.88**		5.56	U	**9.44**	**B**	5.56	U	**8.47**	**B**	5.56	U	5.56	U	5.56	U	5.56	U
Magnesium	35000	**36,800**		**18,500**		**30,900**		**25,200**		**43,600**		**31,800**		**25,000**		**14,900**		**47,800**		**46,000**	
Manganese	300	**537**		**1,210**		**536**		**307**		**766**		**1,340**		**622**		**600**		**1,120**		**760**	
Nickel	100	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U
Potassium	~	**24,100**		**18,600**		**22,500**		**24,200**		**35,600**		**22,100**		**18,400**		**15,800**		**31,100**		**30,500**	
Silver	50	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U	5.56	U
Sodium	20000	**152,000**		**47,500**		**110,000**		**68,100**		**187,000**		**35,600**		**41,200**		**36,700**		**242,000**		**294,000**	
Vanadium	~	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U	11.10	U
Zinc	2000	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U	27.80	U
Metals, Target Analyte, ICPMS																					
Antimony	3	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U
Arsenic	25	**14.10**		**5.40**		**22.40**		**3.60**		**1.57**		**2.80**		**18.30**		**1.20**		**40.8**		**2.88**	
Beryllium	3	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U
Cadmium	5	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U
Selenium	10	**7.48**	**B**	**4.21**	**B**	**4.98**	**B**	**3.54**	**B**	1.11	U	1.11	U	1.11	U	1.11	U	**5.39**	**B**	**8.29**	**B**
Thallium	~	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U
Metals, Target Analyte, ICPMS Dissolved																					
Antimony	3	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U
Arsenic	25	**8.09**		**4.89**		**18.80**		**2.96**		1.11	U	**3.97**		**7.45**		1.11	U	**4.65**		**1.67**	
Beryllium	3	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U	0.333	U
Cadmium	5	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U	0.556	U
Selenium	10	**3.58**	**B**	**2.71**	**B**	**1.69**	**B**	1.11	U	1.11	U	1.11	U	1.11	U	**1.52**	**B**	**6.53**	**B**	**8.22**	**B**
Thallium	~	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U	1.11	U
Mercury by 7470/7471																					
Mercury	0.7	**1**		**1.5**		**0.60**		**0.30**		0.20	U	0.20	U	**1.2**		0.20	U	0.20	U	0.20	U
Mercury, Dissolved																					
Mercury	0.7	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U	0.20	U
Chromium, Hexavalent																					
Chromium, Hexavalent	50	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chromium, Trivalent																					
Chromium, Trivalent	~	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Cyanide, Total																					
Cyanide, total	200	**32**		**1,650**		**1,400**		**258**	**D**	10	U	**122**		**58**		**2,200**		**650**		**1,200**	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Orange shaded values exceed the NYSDEC TOGS Standards and Guidance Values

Q is the Qualifier Column with definitions as follows:

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 3F
Groundwater PFAS Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYDEC Part 375 PFAS Remedial Program Water April 2023	23MW-1		23MW-2		23MW-3		23MW-4		23MW-5		23MW-6		23MW-7		23MW-8		23MW-9		23MW-10	
Sampling Date		1/12/2024		1/12/2024		1/12/2024		1/12/2024		1/12/2024		1/12/2024		1/12/2024		1/12/2024		1/12/2024		1/12/2024	
Client Matrix		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
Unit		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L		ng/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
11CL-PF3OUdS	~	1.36	U	1.37	U	1.39	U	1.40	U	1.28	U	1.41	U	1.32	U	1.33	U	1.40	U	1.42	U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	~	2.02	U	2.04	U	2.06	U	2.08	U	1.90	U	2.10	U	1.96	U	1.97	U	2.08	U	2.11	U
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	~	1.76	U	1.78	U	1.80	U	1.82	U	1.66	U	1.84	U	1.71	U	1.72	U	1.81	U	1.84	U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	~	1.05	U	1.06	U	1.06	U	1.08	U	0.983	U	1.09	U	1.01	U	1.02	U	1.07	U	1.09	U
3-Perfluoroheptyl propanoic acid (FHpPA)	~	9.34	U	9.43	U	9.51	U	9.63	U	8.78	U	9.71	U	9.05	U	9.11	U	9.59	U	9.75	U
3-Perfluoropentyl propanoic acid (FPePA)	~	7.23	U	7.30	U	7.36	U	7.45	U	6.79	U	7.52	U	7	U	7.05	U	7.42	U	7.55	U
3-Perfluoropropyl propanoic acid (FPrPA)	~	2	U	2.02	U	2.04	U	2.06	U	1.88	U	2.08	U	1.94	U	1.95	U	2.06	U	2.09	U
9CL-PF3ONS	~	0.69	U	0.697	U	0.703	U	0.712	U	0.649	U	0.718	U	0.669	U	0.673	U	0.709	U	0.721	U
ADONA	~	0.523	U	0.528	U	0.532	U	0.539	U	0.491	U	0.543	U	**0.561**	**J**	0.51	U	**0.625**	**J**	0.546	U
HFPO-DA (Gen-X)	~	3.18	U	3.22	U	3.24	U	**87.30**		2.99	U	3.31	U	3.09	U	3.11	U	3.27	U	3.33	U
N-EtFOSA	~	1.77	U	1.79	U	1.81	U	1.83	U	1.67	U	1.85	U	1.72	U	1.73	U	1.82	U	1.85	U
N-EtFOSAA	~	1.02	U	1.03	U	1.03	U	1.05	U	0.955	U	1.06	U	0.984	U	0.99	U	1.04	U	1.06	U
N-EtFOSE	~	3.93	U	3.97	U	4.01	U	4.06	U	3.70	U	4.09	U	3.81	U	3.84	U	4.04	U	4.11	U
N-MeFOSA	~	1.56	U	1.57	U	1.59	U	1.61	U	1.46	U	1.62	U	1.51	U	1.52	U	1.60	U	1.63	U
N-MeFOSAA	~	0.779	U	0.787	U	0.793	U	0.803	U	0.732	U	0.81	U	0.755	U	0.76	U	0.80	U	0.813	U
N-MeFOSE	~	3.93	U	3.97	U	4.01	U	4.06	U	3.70	U	4.09	U	3.81	U	3.84	U	4.04	U	4.11	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	~	0.493	U	0.498	U	0.502	U	0.509	U	0.463	U	0.513	U	0.478	U	0.481	U	0.506	U	0.515	U
Perfluoro-1-decanesulfonic acid (PFDS)	~	1.30	U	1.31	U	1.33	U	1.34	U	1.22	U	1.35	U	1.26	U	1.27	U	1.340	U	1.36	U
Perfluoro-1-heptanesulfonic acid (PFHpS)	~	0.897	U	0.906	U	0.914	U	0.926	U	0.843	U	0.933	U	0.869	U	0.875	U	0.922	U	0.937	U
Perfluoro-1-nonanesulfonic acid (PFNS)	~	0.848	U	0.856	U	0.863	U	0.875	U	0.797	U	0.882	U	0.822	U	0.827	U	0.871	U	0.885	U
Perfluoro-1-octanesulfonamide (FOSA)	~	0.868	U	0.876	U	0.883	U	0.895	U	0.816	U	0.902	U	0.841	U	0.846	U	0.891	U	0.906	U
Perfluoro-1-pentanesulfonate (PFPeS)	~	0.749	U	0.757	U	0.763	U	0.773	U	0.704	U	0.779	U	0.726	U	0.731	U	0.77	U	0.782	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	~	2.11	U	2.13	U	2.15	U	2.18	U	1.98	U	2.19	U	2.04	U	2.06	U	2.17	U	2.20	U
Perfluoro-4-oxapentanoic acid (PFMPA)	~	0.246	U	0.249	U	0.251	U	0.254	U	0.232	U	0.256	U	0.239	U	0.24	U	0.253	U	0.257	U
Perfluoro-5-oxahexanoic acid (PFMBA)	~	0.365	U	0.368	U	0.371	U	0.376	U	0.343	U	0.379	U	0.353	U	0.356	U	0.375	U	**0.564**	**J**
Perfluorobutanesulfonic acid (PFBS)	~	**2.48**		0.468	U	**3.16**		0.478	U	0.436	U	**4.48**		**3.79**		**5.88**		**6.860**		0.484	U
Perfluorodecanoic acid (PFDA)	~	**0.979**	**J**	0.747	U	0.753	U	0.763	U	**2.16**		0.769	U	0.716	U	0.721	U	0.76	U	0.772	U
Perfluorododecanesulfonic acid (PFDoS)	~	0.917	U	0.926	U	0.934	U	0.946	U	0.862	U	0.954	U	0.888	U	0.894	U	0.942	U	0.957	U
Perfluorododecanoic acid (PFDoA)	~	0.868	U	0.876	U	0.883	U	0.895	U	0.816	U	0.902	U	0.841	U	0.846	U	0.891	U	0.906	U
Perfluoroheptanoic acid (PFHpA)	~	**2.58**		**12.20**		**4.16**		0.722	U	**4.68**		**8.66**		**13.90**		**4.46**		**3.55**		**4.63**	
Perfluorohexanesulfonic acid (PFHxS)	~	0.67	U	**2.83**		**1.65**	**J**	**0.785**	**J**	**0.796**	**J**	**1.99**		**1.72**	**J**	**2.29**		**1.93**		**1.41**	**J**
Perfluorohexanoic acid (PFHxA)	~	**3.80**		**22.50**		**8**		**4.34**		**6.97**		**13.20**		**7.33**		**4.81**		**8.89**		**6.89**	
Perfluoro-n-butanoic acid (PFBA)	~	0.325	U	0.329	U	0.331	U	**1,300**		**6.63**	**J**	**460**		**14.50**		0.317	U	0.334	U	**683**	
Perfluorononanoic acid (PFNA)	~	**1.62**	**J**	**1.18**	**J**	**2**	**J**	**0.868**	**J**	**3.78**		**1.03**	**J**	**2.68**		**2.74**		**1.09**	**J**	**1.38**	**J**
Perfluorooctanesulfonic acid (PFOS)	2.7	**31.70**		**13**		**15.30**		**5.37**		**14.50**		**1.04**	**J**	**6.90**		**17**		**10.30**		**12.40**	
Perfluorooctanoic acid (PFOA)	6.7	**3.58**		**13**		**11.10**		**8.49**		**6.90**		**11.90**		**22.40**		**12.30**		**5.14**		**9.30**	
Perfluoropentanoic acid (PFPeA)	~	**4.07**		**33.40**		**9.24**		**5.56**		**7.26**		**14.40**		**7.34**		**5.59**		0.233	U	0.237	U
Perfluorotetradecanoic acid (PFTA)	~	0.68	U	0.687	U	0.693	U	0.702	U	0.64	U	0.707	U	0.659	U	0.663	U	0.699	U	0.71	U
Perfluorotridecanoic acid (PFTrDA)	~	0.73	U	0.737	U	0.743	U	0.753	U	0.686	U	0.759	U	0.707	U	0.712	U	0.750	U	0.762	U
Perfluoroundecanoic acid (PFUnA)	~	1.11	U	1.13	U	1.13	U	1.15	U	1.05	U	1.16	U	1.08	U	1.09	U	1.14	U	1.16	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Orange shaded values exceed the NYSDEC Part 375 PFAS Remedial Program Water Oct 2020 Standards

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

Table 3F continued
Field Blank PFAS Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	NYDEC Part 375 PFAS Remedial Program Water April 2023	PFAS Field Blank		Field Blank		Field Blank PFAS		PFAS Field Blank		FB	
Sampling Date		11/6/2023		11/8/2023		11/9/2023		11/13/2023		1/12/2024	
Client Matrix		Water		Water		Water		Water		Ground Water	
Unit		ng/L		ng/L		ng/L		ng/L		ng/L	
Compound		Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
11CL-PF3OUdS	~	1.380	U	1.250	U	1.280	U	1.380	U	1.340	U
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	~	2.050	U	1.860	U	1.900	U	2.050	U	1.980	U
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	~	1.790	U	1.630	U	1.660	U	1.790	U	1.730	U
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	~	1.060	U	0.963	U	0.982	U	1.060	U	1.030	U
3-Perfluoroheptyl propanoic acid (FHpPA)	~	9.470	U	8.600	U	8.770	U	9.470	U	9.160	U
3-Perfluoropentyl propanoic acid (FPePA)	~	7.330	U	6.660	U	6.790	U	7.330	U	7.090	U
3-Perfluoropropyl propanoic acid (FPrPA)	~	2.030	U	1.840	U	1.880	U	2.030	U	1.960	U
9CL-PF3ONS	~	0.700	U	0.636	U	0.648	U	0.700	U	0.677	U
ADONA	~	0.530	U	0.481	U	0.491	U	0.530	U	0.513	U
HFPO-DA (Gen-X)	~	3.230	U	2.930	U	2.990	U	3.230	U	3.130	U
N-EtFOSA	~	1.800	U	1.630	U	1.670	U	1.800	U	1.740	U
N-EtFOSAA	~	1.030	U	0.935	U	0.954	U	1.030	U	0.997	U
N-EtFOSE	~	3.990	U	3.620	U	3.700	U	3.990	U	3.860	U
N-MeFOSA	~	1.580	U	1.430	U	1.460	U	1.580	U	1.530	U
N-MeFOSAA	~	0.790	U	0.717	U	0.732	U	0.790	U	0.764	U
N-MeFOSE	~	3.990	U	3.620	U	3.700	U	3.990	U	3.860	U
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	~	0.500	U	0.454	U	0.463	U	0.500	U	0.484	U
Perfluoro-1-decanesulfonic acid (PFDS)	~	1.320	U	1.200	U	1.220	U	1.320	U	1.280	U
Perfluoro-1-heptanesulfonic acid (PFHpS)	~	0.910	U	0.826	U	0.843	U	0.910	U	0.880	U
Perfluoro-1-nonanesulfonic acid (PFNS)	~	0.860	U	0.781	U	0.797	U	0.860	U	0.832	U
Perfluoro-1-octanesulfonamide (FOSA)	~	0.880	U	0.799	U	0.815	U	0.880	U	0.851	U
Perfluoro-1-pentanesulfonate (PFPeS)	~	0.760	U	0.690	U	0.704	U	0.760	U	0.735	U
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	~	2.140	U	1.940	U	1.980	U	2.140	U	2.070	U
Perfluoro-4-oxapentanoic acid (PFMPA)	~	0.250	U	0.227	U	0.232	U	0.250	U	0.242	U
Perfluoro-5-oxahexanoic acid (PFMBA)	~	0.370	U	0.336	U	0.343	U	0.370	U	0.358	U
Perfluorobutanesulfonic acid (PFBS)	~	0.470	U	0.427	U	0.435	U	0.470	U	0.455	U
Perfluorodecanoic acid (PFDA)	~	0.750	U	0.681	U	0.695	U	0.750	U	0.726	U
Perfluorododecanesulfonic acid (PFDoS)	~	0.930	U	0.845	U	0.861	U	0.930	U	0.900	U
Perfluorododecanoic acid (PFDoA)	~	0.880	U	0.799	U	0.815	U	0.880	U	0.851	U
Perfluoroheptanoic acid (PFHpA)	~	0.710	U	0.645	U	0.658	U	0.710	U	0.687	U
Perfluorohexanesulfonic acid (PFHxS)	~	0.680	U	0.618	U	0.630	U	0.680	U	0.658	U
Perfluorohexanoic acid (PFHxA)	~	0.350	U	0.318	U	0.324	U	0.350	U	0.339	U
Perfluoro-n-butanoic acid (PFBA)	~	0.330	U	0.300	U	0.306	U	**5.320**	**J**	0.319	U
Perfluorononanoic acid (PFNA)	~	0.520	U	0.472	U	0.482	U	0.520	U	0.503	U
Perfluorooctanesulfonic acid (PFOS)	2.7	0.820	U	0.745	U	0.760	U	0.820	U	0.793	U
Perfluorooctanoic acid (PFOA)	6.7	0.420	U	0.381	U	0.389	U	0.420	U	0.406	U
Perfluoropentanoic acid (PFPeA)	~	**0.304**	**J**	0.209	U	0.213	U	0.230	U	0.223	U
Perfluorotetradecanoic acid (PFTA)	~	0.690	U	0.627	U	0.639	U	0.690	U	0.668	U
Perfluorotridecanoic acid (PFTrDA)	~	0.740	U	0.672	U	0.685	U	0.740	U	0.716	U
Perfluoroundecanoic acid (PFUnA)	~	1.130	U	1.030	U	1.050	U	1.130	U	1.090	U

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

~=this indicates that no regulatory limit has been established for this analyte

Table 4
Soil Vapor and Ambient Air Volatile Organic Compound Analytical Results
100 East 149th Street, Bronx, New York 10451

Sample ID	23SV1		23SV2		23SV3		23SV4		23SV5		23SV6		OA-1	
York ID	23K1901-01		23K1901-02		23K1901-03		23K1901-04		23K1901-05		23K1901-06		23K1901-07	
Sampling Date	11/29/2023		11/29/2023		11/29/2023		11/29/2023		11/29/2023		11/29/2023		11/29/2023	
Client Matrix	Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor		Outdoor Ambient Air	
Unit	ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3		ug/m3	
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
1,1,1,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1.10	U	2	U	0.53	U
1,1,1-Trichloroethane	0.81	U	0.80	U	0.81	U	0.79	U	0.84	U	1.60	U	0.42	U
1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1.1	U	2	U	0.53	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.10	U	1.10	U	1.10	U	1.10	U	1.20	U	2.30	U	0.59	U
1,1,2-Trichloroethane	0.81	U	0.80	U	0.81	U	0.790	U	0.84	U	1.60	U	0.42	U
1,1-Dichloroethane	0.60	U	0.59	U	0.60	U	0.590	U	0.62	U	1.20	U	0.31	U
1,1-Dichloroethylene	0.15	U	0.15	U	0.15	U	0.140	U	0.15	U	0.29	U	0.077	U
1,2,4-Trichlorobenzene	1.10	U	1.10	U	1.10	U	1.10	U	1.10	U	2.20	U	0.57	U
1,2,4-Trimethylbenzene	0.73	U	**24**	**D**	**0.7**	**D**	**6.2**	**D**	**9.3**	**D**	**51**	**D**	0.38	U
1,2-Dibromoethane	1.10	U	1.10	U	1.10	U	1.10	U	1.20	U	2.30	U	0.59	U
1,2-Dichlorobenzene	0.89	U	0.88	U	0.89	U	0.87	U	0.92	U	1.80	U	0.46	U
1,2-Dichloroethane	0.60	U	**2.5**	**D**	0.60	U	0.59	U	0.62	U	1.20	U	0.31	U
1,2-Dichloropropane	0.68	U	0.68	U	0.68	U	0.67	U	0.71	U	1.40	U	0.36	U
1,2-Dichlorotetrafluoroethane	1	U	1	U	1	U	1	U	1.10	U	2.10	U	0.54	U
1,3,5-Trimethylbenzene	0.73	U	**6.6**	**D**	0.73	U	**1.7**	**D**	**3.2**	**D**	**40**	**D**	0.38	U
1,3-Butadiene	0.98	U	0.98	U	0.98	U	0.96	U	1	U	2	U	0.51	U
1,3-Dichlorobenzene	0.89	U	0.88	U	0.89	U	0.87	U	0.92	U	1.80	U	0.46	U
1,3-Dichloropropane	0.68	U	0.68	U	0.68	U	0.67	U	0.71	U	1.40	U	0.36	U
1,4-Dichlorobenzene	0.89	U	0.88	U	0.89	U	0.87	U	0.92	U	1.80	U	0.46	U
1,4-Dioxane	1.10	U	1.10	U	1.10	U	1	U	1.10	U	2.10	U	0.56	U
2-Butanone	**0.44**	**D**	**0.95**	**D**	**0.52**	**D**	**0.51**	**D**	**32**	**D**	**2.6**	**D**	**0.25**	**D**
2-Hexanone	1.20	U	1.20	U	1.20	U	1.20	U	**4.5**	**D**	2.40	U	0.63	U
3-Chloropropene	2.30	U	2.30	U	2.30	U	2.30	U	2.40	U	4.60	U	1.20	U
4-Methyl-2-pentanone	0.60	U	0.60	U	0.61	U	0.59	U	0.63	U	1.20	U	0.32	U
Acetone	**4.20**	**D**	**55**	**D**	**18**	**D**	**56**	**D**	**31**	**D**	**54**	**D**	**2.1**	**D**
Acrylonitrile	**0.67**	**BD**	0.32	U	**0.67**	**BD**	**0.63**	**BD**	**1**	**BD**	0.64	U	**0.35**	**BD**
Benzene	**0.66**	**D**	**2.10**	**D**	**0.76**	**D**	**0.51**	**D**	**6**	**D**	0.95	U	**0.39**	**D**
Benzyl chloride	0.76	U	0.76	U	0.77	U	0.75	U	0.79	U	1.50	U	0.40	U
Bromodichloromethane	0.99	U	0.98	U	0.99	U	0.97	U	1	U	2	U	0.52	U
Bromoform	1.50	U	1.50	U	1.50	U	1.50	U	1.60	U	3.10	U	0.80	U
Bromomethane	0.57	U	0.57	U	0.57	U	0.56	U	0.59	U	1.20	U	0.30	U
Carbon disulfide	0.46	U	**0.55**	**D**	0.46	U	0.45	U	**4**	**D**	**9.6**	**D**	0.24	U
Carbon tetrachloride	**0.37**	**D**	0.23	U	**0.47**	**D**	**0.36**	**D**	0.24	U	0.47	U	**0.24**	**D**
Chlorobenzene	0.68	U	0.68	U	0.68	U	0.67	U	0.70	U	1.40	U	0.36	U
Chloroethane	0.39	U	0.39	U	0.39	U	0.38	U	0.40	U	0.78	U	0.20	U
Chloroform	0.72	U	0.72	U	0.72	U	**2.8**	**D**	0.75	U	1.40	U	0.38	U
Chloromethane	**0.64**	**D**	0.30	U	**0.64**	**D**	**0.54**	**D**	0.32	U	0.61	U	**0.32**	**D**
cis-1,2-Dichloroethylene	0.15	U	0.15	U	0.15	U	0.14	U	0.15	U	0.29	U	0.077	U
cis-1,3-Dichloropropylene	0.67	U	0.67	U	0.67	U	0.66	U	0.69	U	1.30	U	0.35	U
Cyclohexane	0.51	U	**6.3**	**D**	0.51	U	0.50	U	**4.5**	**D**	**92**	**D**	0.27	U
Dibromochloromethane	1.30	U	1.30	U	1.30	U	1.20	U	1.30	U	2.50	U	0.66	U
Dichlorodifluoromethane	**2.2**	**D**	**2**	**D**	**2.4**	**D**	**2.3**	**D**	**2.2**	**D**	**2.2**	**D**	**1.2**	**D**
Ethyl acetate	1.10	U	1.10	U	1.10	U	1	U	1.10	U	2.10	U	0.56	U
Ethyl Benzene	0.64	U	**8.7**	**D**	0.64	U	**3.5**	**D**	**7.8**	**D**	**54**	**D**	0.34	U
Hexachlorobutadiene	1.60	U	1.60	U	1.60	U	1.50	U	1.60	U	3.20	U	0.82	U
Isopropanol	**1.5**	**D**	**1.3**	**D**	**2.1**	**D**	**4.1**	**D**	**1**	**D**	**1.7**	**D**	**0.91**	**D**
Methyl Methacrylate	0.60	U	0.60	U	0.61	U	0.59	U	0.63	U	1.20	U	0.32	U
Methyl tert-butyl ether (MTBE)	0.53	U	0.53	U	0.53	U	0.52	U	0.55	U	1.10	U	0.28	U
Methylene chloride	1	U	1	U	1	U	1	U	1.10	U	2.10	U	0.54	U
n-Heptane	0.60	U	**5.3**	**D**	0.61	U	**0.71**	**D**	**14**	**D**	**340**	**D**	**0.57**	**D**
n-Hexane	0.52	U	**23**	**D**	**0.52**	**D**	0.51	U	**26**	**D**	**170**	**D**	**0.44**	**D**
o-Xylene	0.64	U	**18**	**D**	**0.84**	**D**	**8.2**	**D**	**15**	**D**	**21**	**D**	0.34	U
p- & m- Xylenes	**1.4**	**D**	**39**	**D**	**2.3**	**D**	**16**	**D**	**30**	**D**	**52**	**D**	**0.74**	**D**
p-Ethyltoluene	0.73	U	**19**	**D**	0.73	U	**5.8**	**D**	**11**	**D**	**42**	**D**	0.38	U
Propylene	0.25	U	0.25	U	0.25	U	0.25	U	**3.4**	**D**	0.51	U	0.13	U
Styrene	0.63	U	0.63	U	0.63	U	0.62	U	0.65	U	1.30	U	0.33	U
Tetrachloroethylene	1	U	**1**	**D**	1	U	**1.8**	**D**	**2**	**D**	**17**	**D**	0.52	U
Tetrahydrofuran	0.87	U	0.87	U	0.87	U	0.86	U	0.90	U	1.70	U	0.46	U
Toluene	**1**	**D**	**17**	**D**	**1.5**	**D**	**3.6**	**D**	**18**	**D**	**16**	**D**	**0.55**	**D**
trans-1,2-Dichloroethylene	0.59	U	0.58	U	0.59	U	0.57	U	0.61	U	1.20	U	0.31	U
trans-1,3-Dichloropropylene	0.67	U	0.67	U	0.67	U	0.66	U	0.69	U	1.30	U	0.35	U
Trichloroethylene	0.20	U	0.20	U	0.20	U	0.19	U	**0.49**	**D**	0.40	U	0.10	U
Trichlorofluoromethane (Freon 11)	**1.2**	**D**	**1.2**	**D**	**1.4**	**D**	**1.4**	**D**	**1.3**	**D**	1.70	U	**0.69**	**D**
Vinyl acetate	0.52	U	0.52	U	0.52	U	0.51	U	0.54	U	1	U	0.27	U
Vinyl bromide	0.65	U	0.64	U	0.65	U	0.63	U	0.67	U	1.30	U	0.34	U
Vinyl Chloride	0.19	U	0.19	U	0.19	U	0.19	U	0.20	U	0.38	U	0.099	U
Total BTEX	**3.06**		**84.80**		**5.40**		**31.81**		**76.80**		**143**		**2.02**	

NOTES:

There are currently no standards, criteria, or guidance for soil vapor in New York State

Bolded and italicized compounds indicate the NYSDOH Guidance Compounds

Bolded values indicate the analyte was detected at or above the Reporting Limit (RL)

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

Appendix A

Remedial Investigation Work Plan

100 EAST 149TH STREET SITE

100 EAST 149TH STREET
BRONX, NEW YORK
Block 2351 Lot 35

REMEDIAL INVESTIGATION WORK PLAN

NYSDEC SPILL NUMBER 18-10498

BCP Agreement Number C203159

MAY 2023

Prepared for:
RGDC 149 LLC
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Prepared By:
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100 East 149th Street, Bronx, NY

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ATTACHMENTS

Attachment A Previous Reports – Digital File
Attachment B Resumes
Attachment C Sampling, Analysis and Assessment of Polyfluoroalkyl Substances (PFAS) November 2022 guidance
Attachment D Quality Assurance Project Plan
Attachment E Health and Safety Plan
Attachment F Community Air Monitoring Plan

LIST OF ACRONYMS

Acronym	Definition
AWQS	Ambient Water Quality Standards
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BGS	Below ground surface
BOA	Brownfield Opportunity Area
BTEX	Benzene, Toluene, Ethyl benzene, Xylenes
CAMP	Community Air Monitoring Plan
CVOC	Chlorinated Volatile Organic Compounds
CY	Cubic Yards
DER-10-NYSDEC DER-10	Technical Guidance for Site Investigation and Remediation
DUSR	Data Usability Summary Report
EDD	Electronic Data Deliverable
EES	Eastern Environmental Solutions
EIMS	Environmental Information Management System
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
FSSI	Focused Subsurface Site Investigation
GPR	Ground Penetrating Radar
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations Emergency Response
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LQG	Large Quantity Generator
MB	Method Blank
NGVD	National Geodetic Vertical Datum
NYC DEP	New York City Department of Environmental Protection
NYC DOB	New York City Department of Buildings
NYC DOH	New York State Department of Health
NYC OER	New York City Office of Environmental Remediation
NYCRR	New York Codes Rules and Regulations
NYS DEC	New York State Department of Environmental Conservation
NYS DEC DER	New York State Department of Environmental Conservation Division of Environmental Remediation
PAHs	Polyaromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PFAS	Per-and Polyfluoroalkyl Substances
PID	Photoionization Detector
PM	Project Manager
PVEC	Potential Vapor Encroachment Condition
QA/QC	Quality Assistance / Quality Control

QAPP	Quality Assurance Project Plan
QEP	Qualified Environmental Professional
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RI	Remedial Investigation
RIR	Remedial Investigation Report
RIWP	Remedial Investigation Work Plan
RRSCO	Restricted Residential Soil Cleanup Objective
SCOs	Soil Cleanup Objectives
SCGs	Standards, Criteria, and Guidance
SSM	Site Safety Manager
SVOCs	Semi Volatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
USDOT	United States Department of Transportation
USGS	United States Geological Survey
USTs	Underground Storage Tanks
UUSCO	Unrestricted Use Soil Cleanup Objective
VOCs	Volatile Organic Compounds
VSQG	Very Small Quantity Generator

CERTIFICATION

I, Rachel Ataman, certify that I am a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this Remedial Investigation Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Rachel Ataman
Name

05/23/2023
Date

1.0 INTRODUCTION

This Remedial Investigation Work Plan (RIWP) was prepared on behalf of RGDC 149 LLC for the property known as the 100 East 149th Street Site, located at 100 East 149th Street in Bronx, New York. RGDC 149 LLC entered into a Brownfield Cleanup Agreement (Index No. C203159) with the New York State Department of Environmental Conservation (NYSDEC) on February 24, 2023.

The Site has confirmed contamination in the soil, groundwater, and soil vapor which is related to historic on-site operations. The purpose of this Remedial Investigation Work Plan (RIWP) is to collect data of sufficient quality and quantity to characterize the nature and extent of residual contamination associated with the historic operations at the Site and the surrounding community to evaluate alternatives to remediate the contamination.

The overall objectives of the project are to prepare the Site for future use and to remediate known and unknown environmental conditions at the Site to the satisfaction of the NYSDEC and the New York State Department of Health (NYSDOH).

1.1 Site Location and Description

The street address for the Site is 100 East 149th Street, Bronx, New York (**Figure 1**). The Site is located in the City of New York in the Mott Haven neighborhood of the Borough of the Bronx. The Site is known as the 100 East 149th Street Site and is identified as Block 2351, Lot 35. The irregular-shaped Site consists of approximately 104-feet of frontage along Exterior Street and 47 feet of frontage along East 149th Street. The Site is a vacant lot formerly used as a gasoline station.

According to the USGS topographic map for the area (Brooklyn Quadrangle), the elevation of the property is approximately 8-feet above the National Geodetic Vertical Datum (NGVD) (**Figure 2**). The area topography is generally flat with little relief and no significant elevation changes. According to previous investigations conducted at the Site, groundwater occurs beneath the Site at a depth of approximately 10 to 14 feet below grade under perched water table conditions. Groundwater is expected to flow to the west across the Site, towards Exterior Street.

The entire Site is zoned as M1-4/R8A and MX-13, for Light Manufacturing and Residential Use. The M1 district is often a buffer between M2 or M3 districts and adjacent residential or commercial districts. Light industries typically found in M1 areas include woodworking shops, auto storage and repair shops, and wholesale service and storage facilities. Offices, hotels, and most retail uses are also permitted. The M1-4 district is not subject to parking requirements. Contextual Quality Housing bulk regulations are mandatory in R8A zoning districts which typically results in "high lot coverage 10 to 12-story apartment buildings." The floor to area ratio in R8A Districts is 6.02 and parking in this district is required for 40% of dwelling units. The parking requirement is waived if 15 or fewer spaces are required or if the lot is less than or equal to 10,000-square feet.

Surrounding land use include a residential property to the south of the Site, commercial properties to the east and north of the Site, vacant land to the northwest of the Site, a public

facility to the north, and a property associated with the New York Recycling plant to the west of the Site. **Figure 3** depicts the configuration of the Site and adjoining properties.

The closest school (KIPP Elements Primary School) is located approximately 51 feet east of the Site.

1.2 Redevelopment Plans

The majority of the Site is expected to be excavated to approximately 11-feet below grade with the exception of some areas which may need to be excavated to approximately 14-feet below grade for the construction of a new eight-story mixed-use residential and commercial building with a below-grade basement (9-floors total). The proposed building will contain retail units on the ground floor and the basement will contain a bicycle room, storage areas, and utility areas. The proposed building foundation will cover approximately 90% of the Site. The final building plans for the proposed building have not been finalized as of yet but may include either a green roof, solar panels, or a combination of the two. The remaining 10% of the Site may not be excavated will likely be capped in some capacity if needed and will include a 400 square foot backyard area.

1.3 Site History

The environmental history of the Site was identified through the review of prior investigation reports, Federal and State Environmental Databases, and Environmental Sanborn Fire Insurance Maps. According to prior reports, the Site was historically developed with a gasoline station in circa 1935. Sanborn Maps indicate a gasoline station was present at the Site from at least 1935 through 1989 and a review of historic City Directories indicates service station occupants were listed from at least 1956 through 1976. Furthermore, the 1935, 1944, and 1946 Sanborn Maps depict five 550-gallon buried underground storage tanks (USTs) at the Site. Most recently, a tire company (149 Tire Center Corp), occupied the Site in 2017. A demolition permit for the structure was filed with the NYC DOB in 2019. The Site currently contains vacant land.

1.4 Summary of Previous Investigations

Environmental investigations performed at the Site include the following:

- Phase I Environmental Site Assessment (ESA) and a Focused Subsurface Site Investigation (MECC, May 2017)
- Remedial Investigation Report (EES, July 2019)
- Phase II Environmental Site Assessment (Touchstone, October 2020)
- Phase I Environmental Site Assessment (Touchstone, April 2022)

A copy of each of the reports listed above is included in **Attachment A** and are described below.

1.4.1 Focused Subsurface Site Investigation (Merritt Environmental Consulting Corp, May 2017)

Touchstone has not been provided with a copy of the Phase I Environmental Site Assessment or Focused Subsurface Site Investigation prepared by Merritt Environmental Consulting, Corp.

(MECC). However, these reports are referred to in the Remedial Investigation Report (RIR) prepared by Eastern Environmental Solutions (EES), dated July 2019. According to the EES RIR, MECC conducted the FSSI based upon the Phase I ESA for the Site. The MECC investigation included the installation of four soil borings (identified as B-1 through B-4) in the northwest portion of the Site. MECC measurements indicated that the water table was encountered at a depth of 14 feet below grade. MECC additionally reported that the subsurface consists of fill material to a depth of at least 20 feet and bedrock was not encountered during the investigation. The Site elevation was reported to be approximately 20 feet above mean sea level and generally level.

Borings B-1 through B-3 (at the northwest portion of the Site) encountered refusal at depths ranging from 7 to 11 feet and boring B-4 (near the center of the Site) was advanced to 20 feet below grade. Vadose zone soil samples were obtained from borings B-1, B-2, and B-4. The results of the investigation in B-2 at 7 feet and B-4 at 12 feet, minor concentrations of petroleum-related VOCs were detected. VOCs were not detected at B-1 at 11 feet. At Boring B-4, a temporary groundwater monitoring well was installed and sampled. The results indicated several petroleum VOCs were detected at concentrations above the NYSDEC Class GA groundwater standards [including a total BTEX concentration of 4,860 micrograms per liter (ug/l)]. No chlorinated VOCs were detected in the soil or groundwater. Free floating product was not identified.

1.4.2 Remedial Investigation Report (Eastern Environmental Solutions, July 2019)

Eastern Environmental Solutions (EES) prepared a Remedial Investigation Report (RIR) for the property located at 100 East 149th Street. At the time of the assessment, the Site consisted of one irregular-shaped parcel with an estimated area of 4,105-square feet (0.094-acres). The Site contained one 200-square foot vacant building with no basement. EES reported that the Site was identified as an E Designation Site under E Designation number E-227 with an effective date of June 30, 2009. No remediation date is listed. The E Designation at the Site is related to Air Quality –#2 Fuel or #4 Fuel Oil or Natural Gas for HVAC Systems, Exhaust Stack Location Limitation, and Hazardous Materials* Phase I and Phase II Testing Protocol. The Remedial Investigation (RI) fieldwork consisted of a Site inspection to identify Site conditions, Site layout, potential areas of concern, and the locations of buildings or other physical structures; the performance of a geophysical investigation to determine the locations of subsurface structures and utilities; the installation of 15 soil borings throughout the Site; the collection of four subsurface soil vapor samples; and the installation of four monitoring wells and the collection and analysis of four groundwater samples. The soil samples collected from 10 to 15-feet below grade from soil boring locations SB-1, SB-5, SB-8, and SB-11 were analyzed for volatile organic compounds (VOCs) via EPA Method 8260C and soil samples collected from 0 to 2-feet and 10-feet below grade from soil boring locations SB-2, SB-3, and SB-4 were analyzed for VOCs via EPA Method 8260C, semi volatile organic compounds (SVOCs) via EPA Method 8270D, pesticides via EPA Method 8081B, metals via EPA Method 6010C, and PCBs via EPA Method 8082A. Samples from soil boring locations SB-6, SB-7, SB-9, SB-10, SB-12, SB-13, SB-14, and SB-15 were not collected or analyzed during the July 2019 Remedial Investigation. The groundwater samples were analyzed for VOCs via EPA Method 8260C, SVOCs via EPA Method 8270D, PCBs via EPA Method 8082A, metals via EPA Method 6010C, pesticides via

EPA Method 8081B, and emerging contaminants (1,4-dioxane and per-and polyfluoroalkyl substances (PFAS)). Soil vapor samples were analyzed for VOCs via EPA Method TO-15.

The results of the RI indicated a geophysical anomaly was identified at the south-central portion of the Site which appeared to be an area of underground storage tanks (USTs). Additionally, the results of the soil samples collected in January 2019 (SB-1, SB-5, SB-8, and SB-11, collected from the southern and central portions of the Site) indicated that petroleum-related VOCs were present at all four locations at concentrations above the 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives (SCOs). Furthermore, the results of the samples obtained in March 2019 (SB-1, SB-2, SB-3, and SB-4 from 0 to 2-feet and 10-feet below grade) indicated that petroleum related compounds were detected in the 10-foot sample from SB-2 collected from the southern portion of the Site at concentrations above the Unrestricted SCOs, SVOC exceedances above the Unrestricted SCOs were identified in SB-1 (0-2'), SB-2 (10'), and SB-3 (0-2' and 10'), and a minor exceedance of 4,4-DDD was detected in SB-2 (0-2'). Soil boring locations SB-1, SB-2, SB-3 were collected from the southern portion of the Site. Additionally, the results of the groundwater samples indicated that petroleum-related VOCs and SVOCs and various metals were detected in all of the monitoring wells located throughout the Site at concentrations exceeding the New York State Department of Environmental Conservation (NYSDEC) Class GA Groundwater Standards. EES additionally noted that "generally low concentrations" of several PFAS compounds were identified in monitoring well MW-3 located in the western-central portion of the Site (MW3-Sample: PFOA: 19 ug/L; MW3-Duplicate: PFOA: 19 ug/L), PFOS: 8.2 ug/L). The results of the soil vapor analysis indicated that the vadose zone soil vapor at the Site contains petroleum and non-petroleum-related VOCs at concentrations ranging from 1.40 ug/m3 (cis-1,2-Dichloroethylene) to 370 ug/m3 (chloroform). EES reported that there were no standards or guidance values for the VOCs in soil vapor and that the petroleum VOCs were likely to be attributable to the petroleum releases at the Site however, EES noted that there may be an off-Site contribution to the contamination at the Site.

EES reported that the results of the investigation indicated the underground storage tanks (USTs) were likely to be the primary source of contamination at the site and that vadose zone soil contamination appeared to be present throughout most or all of the site and was primarily present in the area just above the water table. EES additionally noted that no soil borings at the Site were preformed to a depth greater than 20 feet below grade.

NYSDEC Spill Number 18-10498 was assigned to the release on January 15, 2019 in connection with the presence of petroleum impacted soil at the site.

1.4.2 Phase II Environmental Site Assessment (Touchstone Environmental Geology, PC, October 30, 2020)

Touchstone Environmental Geology, PC (Touchstone) conducted a Phase II Environmental Site Assessment (ESA) at the property identified as 100 East 149th Street in Bronx, New York in October 2020. The fieldwork performed during the Touchstone October 202 Phase II ESA was performed in accordance with NYSDEC requirements to investigate NYSDEC Spill number 18-10498.

The Phase II ESA fieldwork consisted of the performance of a Ground Penetrating Radar (GPR) survey using a GSSI SIR-3000 fitted with a 400 MHz antenna, the installation of four (4) soil probes to 10-feet below grade or until refusal was encountered, and the analysis of eight (6) soil samples for volatile organic compounds (VOCs) via EPA Method 8260 and semi-volatile organic compounds (SVOCs) via EPA Method 8270 (base neutrals). Additionally, four monitoring wells were installed; the four newly installed monitoring wells and one existing monitoring well located on the sidewalk to the west of the Site were sampled. The five groundwater samples were analyzed for VOCs via EPA Method 8260 and SVOCs via EPA Method 8270 (base neutrals).

The results of the Phase II ESA indicated an anomaly was identified in the western-central portion of the Site, as evidenced by the results of the GPR survey. Additionally, it was determined that the historical use of the Site as a gasoline station appears to have impacted upon the environmental quality of the Site as evidenced by the analytical results of soil probes SP-2 (12.5 to 15 feet), SP-3 (10 to 12.5-feet), and SP-4 (5 to 7.5 feet) and groundwater samples from MW-1 through MW-5. The soil analytical results of the Phase II ESA further indicated that levels of gasoline compounds and petroleum impacts were identified in the shallow soils and within the vadose zone in the central and northern portions of the Site as well as in the soil within the vadose zone in the central portion of the Site at concentrations greater than their respective Unrestricted Use Soil Cleanup Objectives (UUSCO). Additionally, the groundwater analytical results indicated levels of gasoline compounds were detected at concentrations exceeding the GQS indicating the groundwater beneath the Site appears to have been impacted and extends to the sidewalk to the west (downgradient of the Site). The greatest concentration of BTEX (benzene, ethyl benzene, toluene, and xylenes) compounds was identified in the central portion of the Site with lower concentrations of total VOCs and BTEX compounds detected in the sidewalk downgradient of the Site and in the northern and southern portions of the Site.

Touchstone noted the soil probes were installed to a depth of 10 feet below grade as groundwater was encountered at this depth.

Elevated levels of several polyaromatic hydrocarbons (PAHs) including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a, h)anthracene, and indeno(1,2,3-cd)pyrene were detected in in the soil as evidenced by the analytical results of SP-1 (2.5 to 5 feet and 7.5 to 10 feet), SP-2 (12.5 to 15 feet), SP-3 (7.5 to 10 feet), and SP-4 (5 to 7.5 feet and 10 to 12.5 feet). The compounds benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a, h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations greater than their respective UUSCO and Restricted Residential Use Soil Cleanup Objectives (RRSCO). The presence of these compounds in the soil was considered to be representative of typical urban fill materials.

1.4.3 Phase I Environmental Site Assessment (Touchstone Environmental Geology, P.C. April 21, 2022)

Touchstone Environmental Geology, P.C. conducted a Phase I Environmental Site Assessment (ESA) at the property identified as 100 East 149th Street. The Phase I ESA was performed in accordance with the scope and limitations of ASTM Standard E 1527-13. At the time of the assessment, the Site consisted of one irregular-shaped parcel with an estimated area of 0.094

acres. The Site contained a vacant lot and was historically used in connection with the operation of a gasoline station at the Site. Touchstone reported that the Site was identified in the E-designation database under E-designation number E-227 with an effective date of June 30, 2009. The E-designation is related to the Air Quality - #2 Fuel Oil or # 4 Fuel Oil or Natural Gas for HVAC systems, Exhaust Stack Location Limitation, and Hazardous Materials* Phase I and Phase II Testing Protocol. A satisfaction/remediation date for the E-Designation listing was not identified.

Touchstone reported that the Site appeared to have operated as a gasoline station from at least 1935 through 1989 and is associated with open NYSDEC Spill Number 18-10498. Touchstone additionally noted that Sanborn maps for the Site dated 1935, 1944, and 1946 depicted the presence of five 550-gallon underground storage tanks (USTs) at the Site and former uses of the Site have included the operation of an automotive service station, auto sales, a junk and salvage yard, auto wrecking public parking and an auto and truck parts dealer in 1971 according to a review of the New York City Department of Buildings records.

Touchstone identified the following Recognized Environmental Conditions:

- The listing of the Subject Property with open NYSDEC Spill Number 18-10498 including the NYSDEC's requirement for site remediation, the presence of petroleum compounds in the groundwater at concentrations exceeding the state groundwater standards and the historic use of the site as a gasoline station and suspect auto repair facility from 1935 to 1989 is considered to represent a Recognized Environmental Condition (REC) and a Potential Vapor Encroachment Condition (PVEC).
- The Subject Property is identified in the E-designation database under E-designation number E-227 with an effective date of June 30, 2009. The E-designation is related to the Air Quality - #2 Fuel Oil or # 4 Fuel Oil or Natural Gas for HVAC systems, Exhaust Stack Location Limitation, and Hazardous Materials* Phase I and Phase II Testing Protocol. A satisfaction/remediation date is not listed. The listing of the Subject Property in the E Designation database is considered to represent a Recognized Environmental Condition (REC).
- The adjacent property to the east, Patella Woodworking located at 99 South Street, is listed in the RCRA generators database as a conditionally exempt small quantity generator (VSQG). According to the database, the facility generates ignitable waste, lead and benzene, and Patella woodworking is historically listed as a large quantity generator (LQG) in 1991 and as a conditionally exempt small quantity generator in 2011. No violations are reported. The listing of the adjacent property to the east in the RCRA generators database is considered to represent a Recognized Environmental Condition (REC).

Touchstone recommended the remediation of NYSDEC Spill Number 18-10498 in accordance with NYSDEC requirements. Touchstone further recommended that any future development of the Subject Property should be done in accordance with the New York City Office of Environmental Remediation (NYC OER) E Designation requirements.

1.5 Site Geology/Hydrogeology

Based upon previous subsurface investigations, the subsurface soil at the Site consists of historic fill material containing concrete, brick, and asphalt in a matrix of silty sand to a depth of approximately 10 to 15-feet below ground surface (bgs). According to the Touchstone October 2020 Phase II Environmental Site Assessment (ESA), groundwater was encountered at approximately 10-feet bgs. Additionally, the July 2019 EES RIR indicated that groundwater was encountered at the Site at approximately 10 to 14-feet bgs. According to the USGS topographic map for the area (Central Park, NY Quadrangle), the elevation of the property is approximately 8 feet above the National Geodetic Vertical Datum (NGVD) (**Figure 2**). The area topography is generally flat with little relief and no significant elevation changes. Groundwater occurs beneath the Site at a depth of approximately 10 to 14-feet below grade under perched water table conditions. Groundwater is expected to flow to the west across the Site. No portion of the Site is located within a designated flood zone area.

1.6 Summary Site Conceptual Model

Previous investigations at the Site have identified contaminants at the Site in the soil (VOCs, SVOCs, metals, and PCBs), soil vapor (CVOCs), and groundwater (VOCs, SVOCs, and Metals). It was previously determined that the contamination at the Site related to NYSDEC Spill Number 18-10498 should be remediated.

2.0 SAMPLING AND ANALYSIS PLAN

The purpose of this work plan will be to determine the nature and extent of the on-Site contamination and identify all sources of contamination (horizontal/vertical) that may be present at the Site. The investigation must produce data of sufficient quality and quantity to allow the NYSDEC and NYSDOH to complete a Significant Threat Determination as per Part 375.2.7 and enable the performance of a qualitative human health exposure assessment as per DER-10, 3.3(c)4.

The subsurface investigation will consist of the following elements:

- The installation of ten (10) soil borings to obtain additional information on soil quality with respect to Soil Cleanup Objectives (SCOs);
- The installation of ten (10) monitoring wells and the collection of groundwater samples to assess groundwater impacts;
- The installation of six (6) soil vapor implants to assess vapor phase VOCs.

2.1 Standards, Criteria, and Guidance for Remedial Actions

A criterion for remedy selections for conformance with Standards, Criteria, and Guidance (SCGs) that are applicable, relevant, and appropriate. Principal SCGs that are applicable, relevant, and appropriate for evaluating the alternatives for remediation of this BCP Site include the following:

- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes (November 1998)
- 6 NYCRR Part 372 - Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities (November 1998)
- 6 NYCRR Subpart 374-1 - Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities (November 1998)
- 6 NYCRR Part 375 - 6 NYCRR Part 375 Environmental Remediation Programs Subparts 375-1, 375-3 and 375-6 (December 2006)
- 6 NYCRR Part 376 - Land Disposal Restrictions
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- 6 NYCRR Part 375-6 Soil Cleanup Objectives
- New York State Groundwater Quality Standards – 6 NYCRR Part 703;
- NYSDEC Ambient Water Quality Standards and Guidance Values – TOGS 1.1.1;
- NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation - May 2010;
- NYSDEC Draft Brownfield Cleanup Program Guide – May 2004;
- New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan
- NYS Waste Transporter Permits – 6 NYCRR Part 364;
- NYS Solid Waste Management Requirements – 6 NYCRR Part 360 and Part 364.
- DER-10, Technical Guidance for Site Investigation and Remediation, May 2010 DER-23
- Citizen Participation Handbook for Remedial Programs

- DER-31 / Green Remediation, DEC Program Policy dated August 11, 2010
- DER-33/Institutional Controls: A Guide to Drafting and Recording Institutional
- Controls, DEC Program Policy dated December 3, 2010
- Guidance for Evaluating Soil Vapor Intrusion in the State of New York, New York State Department of Health, October 2006 (as amended)
- CP-51/Soil Cleanup Guidance, DEC Policy, October 21, 2010
- Making Changes to Selected Remedies, NYSDEC, April 1, 2008
- Sampling, Analysis and Assessment of Polyfluoroalkyl Substances (PFAS) November 2022
- Public Health Law Section 225, 10 NYCRR Subpart 5-1.52 Table 3 Maximum Contaminant Levels (MCLs)

Additional regulations and guidance are applicable, relevant, and appropriate to the remedial alternatives and will be complied in connection with implementation of the remedial program; however, the list above is intended to represent the principal SCGs which should be considered in evaluating the remedial alternatives for the BCP site.

Conformance with the appropriate standards for remediation of contaminated soil is an important criterion in evaluating the remedial alternatives for the BCP site. Presently, in New York State 6 NYCRR Part 375 establishes the primary SCGs associated with remediation of contaminated soil at sites which are in the BCP. If proposing remediation pursuant to a Track other than Track 1 (Unrestricted Use), 6 NYCRR Part 375 requires evaluation of at least one remedial alternative pursuant to Track I (Unrestricted Use) and one other alternative developed by the applicant for the proposed use of the BCP site.

2.2 Project Organization

The Project Manager for the Remedial Investigation (RI) will be Rachel Ataman, PG. Overall responsibility for the BCP Project will be George J. Cambourakis, PE., of Structural Engineering Technologies, PC. Resumes and certificates of key personnel and businesses involved in the RI are included in **Appendix C**. Key personnel are additionally highlighted in the table below:

Project Role	Name
Qualified Environmental Professional (QEP), Project Manager	Rachel Ataman, Touchstone Environmental Geology, PC
Professional Engineer also responsible for the implementation of the RIWP	George J. Cambourakis, PE., Structural Engineering Technologies, PC
Field Team Leader	Mehmet Firat Ataman, Touchstone Environmental Geology, PC
Analytical Laboratory	York Analytical Laboratories, Inc., Stratford, CT
DUSR	Renee G. Cohen, Premier Environmental Services
Site Safety Officer	To Be Determined
Quality Assurance Officer	Gabrielle Castro, Touchstone Environmental Geology, PC
Project Manager for Drilling Company	Carlos Quiñonez, PG Environmental Services, Inc.

2.3 Soil Sampling

A total of ten soil borings (23SP1 through 23SP10) will be advanced across the Site. Soil borings 23SP1 through 23SP7 will be installed on-site. Soil borings 23SP1 and 23SP2 will be installed in the northern portion of the Site, soil borings 23SP3 and 23SP4 will be installed in the central portion of the Site, and soil borings 23SP5 through 23SP7 will be installed in the southern portion of the Site. Soil borings 23SP8, 23SP9 and 23SP10 will be installed on the sidewalks adjacent to the Site. Soil borings 23SP8 and 23SP9 will be installed on the sidewalk along Exterior Street, adjacent to the west of the Site. Soil probe 23SP10 will be installed on the sidewalk along East 149th Street, adjacent to the north of the Site. At all soil boring locations, soil samples will be collected continuously in 2-foot intervals using a Geoprobe™ dual-tube system. The Geoprobe™ uses a direct push hydraulic percussion system to drive and retrieve core samples.

Soil samples will be retrieved using a 1.5-inch diameter, 5-foot-long core sampler with disposable acetate liners and the dual-tube method to preserve sample integrity. At each soil boring location, sampling will continue until a clean endpoint sample or until no contamination is observed (approximately 18-20 feet bgs based upon previous investigations). (No contamination meaning no visual or olfactory evidence of petroleum and no elevated levels of organic vapor readings with a photoionization detector (PID)). If refusal is encountered in a boring, then the boring will be moved to a different location or different drilling technique other than a Geoprobe will be used. If refusal continues to be encountered, then the inability to drill past such refusal will be discussed with the NYSDEC. Soil screening will be conducted until no contamination is identified. Based upon regional groundwater contour maps, and measurements made previously onsite, the depth to groundwater beneath the Site is approximately 10 to 14 feet below grade under perched water table conditions.

Collected soil samples will be characterized by an experienced environmental professional and field screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). All observations will be recorded in a bound project dedicated field book which will be used to prepare a boring log for each soil boring location. Recorded observations will include sample depth, sample recovery, soil type evidence of water (if encountered), PID reading and physical evidence of contamination (odor, staining, sheen, etc.). Resumes will be provided for all personnel responsible for field screening (i.e., those representing the Remedial Engineer) of ground intrusive work for unknown contaminated sources during remediation and development work. **Attachment B** provides copies of Key Personnel Resumes.

In order to ensure that the collection of soil samples is uniform throughout the Site, all borings will be sampled at the following four intervals:

- 0 to 2 feet below grade in unexcavated areas
- At the highest PID reading
- At the groundwater interface
- Just below the deepest observed contamination, staining, odors, PID reding (clean endpoint sample)

See section 2.8.1 for soil analysis discussion.

A sample matrix showing the number, type, and analysis of samples collected during the Remedial Investigation is provided as **Table 1**. **Table 2** includes the sample collection and analysis protocols. The proposed location of the soil borings is shown on **Figure 4**.

2.4 Monitoring Well Installation

Ten monitoring wells (23MW1 through 23MW10) will be installed to determine the site-specific groundwater flow direction and to further evaluate groundwater quality. Seven monitoring wells (23MW1 through 23MW7) will be installed within the Site boundary in the locations of 23SP1 through 23SP7, respectively; two monitoring wells (23MW8 and 23MW9) will be installed in the sidewalk to the west of the Site along Exterior Street in the locations of 23SP8 and 23SP9, respectively; and one monitoring well will be installed in the sidewalk to the north of the Site along East 149th Street (23MW10) in the location of 23SP10. The proposed location of the monitoring wells is shown on **Figure 5**.

The monitoring wells will be installed to a depth of 20 to 24 feet below grade or ten (10) feet into the groundwater which is anticipated to be 10 to 14 feet below grade. The monitoring wells will be installed using Geoprobe™ using direct push technology. Existing monitoring wells, if present, will not be used for this Remedial Investigation.

The monitoring wells will be constructed of 2-inch diameter PVC casing and 0.010-inch slotted PVC well screen. The wells will have 15 feet of screen place from approximately 5 feet-above the groundwater level and 10-feet below the groundwater level. A No. 00 Morie or equivalent filer sand will be placed in the borehole to within 2 feet above the top of the screen. A 1-foot hydrated bentonite seal will be placed on top of the filter sand and the remainder of the borehole will be backfilled to grade. The monitoring wells will be finished with 5-inch manhole covers. Monitoring well construction and development logs will be provided in the Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP).

All monitoring wells will be surveyed by a New York State Licensed Surveyor to determine relative casing elevation to the nearest 0.01 ftand horizontal position to the nearest 0.1ft. Survey data will be used to determine the direction and gradient of groundwater flow at the Site.

2.5 Groundwater Sampling

Groundwater samples will be collected from the newly installed monitoring wells in accordance with USEPA low-flow sampling procedures using polyethylene tubing and a low flow pump with disposable pump tubing. Groundwater samples will be collected one week following the installation and development of all of the monitoring wells.

All groundwater sampling activities will be recorded in the project dedicated field book. This will include a description of:

- Date and time of sample collection;
- Sample location;
- Purging time, duration, and volume;
- Sample appearance

- Analytical methodology:

Groundwater samples will be collected using a low flow pump and dedicated polyethylene tubing in accordance with standard low-flow sampling procedures as follows:

- Record pump make & model on sampling form.
- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan
- Inspect each well for any damage or evidence of tampering and note condition in field logbook.
- Remove the well cap
- Lay out plastic sheeting and place the monitoring, purging, and sampling equipment onthe sheeting.
- To avoid cross-contamination, do not let any downhole equipment touch the ground.
- Measure well headspace with a PID or FID and record the reading in the field logbook.
- A synoptic water level measurement round should be performed (in the shortest possible time) before any purging and sampling activities begin. Measure and record the depth to water using a water level meter or interface probe to the nearest 0.01 ft. Record the measurement in the field logbook. Do not measure the depth to the bottom of the well at this time (to avoid disturbing any sediment that may have accumulated). Obtain depth to bottom information from installation information in the field logbook or soil boring logs.
- Collect samples in order from wells with lowest contaminant concentration to highest concentration Connect the polyethylene tubing to the Geosub 2 Pump and lower the tubing into the well to approximately the middle of the screen. Tubing should be a minimum of 2 feet above the bottom of the well as this may cause mobilization of any sediment present in the bottom of the well.
- Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet but remains stable, continue purging until indicator field parameters stabilize.
- There should be at least 1 foot of water over the end of the tubing so there is no risk of entrapment of air in the sample. Pumping rates should be reduced to the minimum capabilities of the pump, if needed, to avoid purging the well dry. However, if the recharge rate of the well is very low and the well is purged dry, then wait until the well has recharged to a sufficient level and collect the appropriate volume of sample.
- During well purging, monitor indicator field parameters (temperature, specific conductance, pH, and turbidity) every three to five minutes (or less frequently, if appropriate). Note: during the early phase of purging emphasis should be put on minimizing and stabilizing pumping stress and recording those adjustments. Purging is considered complete, and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings, taken at three to five (5) minute intervals, are within the following limits:
    - specific conductance (3%),
    - temperature (3%),
    - pH (± 0.1 unit)
    - turbidity (NTU)

    - If stability is not reached within a reasonable time period purging may be stoppedand the sample collected. This should be noted on the sampling log.
- VOC samples should be collected directly into pre-preserved sample containers. Fill all sample containers by allowing the pump discharge to flow gently down the inside of the container with minimal turbulence. Fill each container with sample to just overflowing so that no air bubbles are entrapped inside. Cap each bottle as it is filled.
- Label the samples and record them on the chain of custody form. Place immediately into a cooler for shipment and maintain at 4ºC.
- Remove the tubing from the well. The polyethylene tubing must either be dedicated to each well or discarded. If dedicated the tubing should be placed in a large plastic garbage bag, sealed, and labeled with the appropriate well identification number.
- Close and lock the well.
- Decontaminate pump either by changing the surgical pump tubing between wells or as follows:
    1. Flush the equipment/pump with potable water.
    2. Flush with non-phosphate detergent solution. If the solution is recycled, the solution must be changed periodically.
    3. Flush with potable or distilled/deionized water to remove all of the detergent solution.If the water is recycled, the water must be changed periodically.
    4. Flush with isopropyl alcohol (pesticide grade). If equipment blank data from the previous sampling event show that the level of contaminants is insignificant, then thisstep may be skipped.
    5. Flush with distilled/deionized water. The final water rinse must not be recycled.

Groundwater samples will be collected in pre-cleaned laboratory supplied glassware, stored in a cooler with ice and submitted to a New York State ELAP certified environmental laboratory. Groundwater samples from monitoring wells will be submitted for laboratory analysis as discussed in Section 2.8.1.

2.6 Soil Vapor Sampling

A total of six soil vapor implants (23SV1 through 23SV6) will be installed in order to assess on-Site and off-Site soil vapor quality. Soil vapor implants 23SV1 through 23SV4 will be installed throughout the Site. Soil vapor implant 23SV1 will be installed in the northeastern portion of the Site, soil vapor implant 23SV2 will be installed in the western-central portion of the Site, soil vapor implant 23SV3 will be installed in the eastern-central portion of the Site, and soil vapor implant 23SV4 will be installed in the southwestern portion of the Site. Additionally, two soil vapor implants will be installed off-Site. One soil vapor implant (23SV6) will be installed to the west of the Site in the sidewalk along Exterior Street; and one soil vapor implant (23SV5) will be installed to the north of the Site in the sidewalk along East 149th Street. The proposed locations of the new soil vapor sampling locations are shown on **Figure 6**.

Soil vapor samples will be collected in accordance with the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York (NYSDOH 10/2006) to determine if the medium is contaminated with VOCs. The evaluation of current on-site exposure will be useful in determining if further off-site investigation of the exposure pathway is warranted. The evaluation of future on-site exposure will determine whether or not the use of control measures will be

necessary to prevent exposure by the commercial employees of the building. Methodologies used for the soil vapor assessment will conform to the NYSDOH Final Guidance on Soil Vapor Intrusion, October 2006 (as amended).

In order to determine the vapor quality in the soil beneath the Site, soil vapor samples will be collected from four soil vapor implants (23SV1 through 23SV4) that will be installed within the Site boundary. Additionally, off-Site soil vapor quality will be assessed via soil vapor samples collected from the sidewalks along East 149th Street (23SV5) and along Exterior Street (23SV6).

In accordance with the New York State Department of Health's (NYS DOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, in order to evaluate the potential for future exposures, the soil vapor sampling points will be installed at multiple depths from the suspected subsurface source, or former source, to a depth comparable to the expected depth of foundation footings. Groundwater at the site occurs between 10-14 ft bgs and the foundation of the anticipated building is reportedly at 11 ft bgs with some areas to 14 ft bgs. In accordance with NYS DOH recommendation, soil vapor sampling points be installed at depths determined based upon field screening results. Where groundwater is encountered, the soil vapor sampling points will be installed approximately one foot above the groundwater interface.

The current sub-slab and soil vapor sampling locations will be abandoned in place and will not be used.

2.6.1 Soil Vapor Sampling Procedure

The soil vapor implants will be installed with Geoprobe™ equipment and constructed in the same manner at all locations to minimize possible discrepancies. The implants will utilize premanufactured 6-inch stainless steel mesh tubes fitted with ¼-inch polyethylene tubing which extends to the surface. Coarse sand will be added to create a sampling zone of one foot in length and will be sealed above with hydrated bentonite powder for a minimum distance of three feet. The tubing at all locations will be sealed at the surface with hydrated granular bentonite and a 6" x 6" (approximate) plastic sheet.

After installation of all soil vapor probes, one to three volumes (i.e., the volume of the sample probe and tube) will be purged prior to collecting the samples to ensure samples collected are representative. Flow rates for both purging and collecting will not exceed 0.2 liters per minute to minimize outdoor air infiltration during sampling. Samples will be collected in Summa® canisters which have been certified clean by the laboratory and analyzed by using USEPA Method TO-15. All samples will be collected over an 8-hour period of time and submitted to a NYSDOH certified laboratory.

A sample log sheet will be maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, soil vapor purge volumes, volume of soil vapor extracted, vacuum of canisters before and after samples are collected, apparent moisture content of the sampling zone, and chain of custody protocols.

As part of the testing, a tracer gas will be used in accordance with NYSDOH protocols to serves as a quality assurance/quality control (QA/QC) device to verify the integrity of the soil vapor

probe seal. Helium will be used as the tracer gas and a box will serve to keep it in contact with the probe during the testing. A portable monitoring device will be used to analyze a sample of soil vapor for the tracer prior to sampling. If tracer sample results show a significant presence of the tracer, the probe seals will be adjusted to prevent infiltration.

After the collection of the analytical sample, a field reading will be recorded at each sampling points utilizing a photoionization detector (PID) capable of detecting organic compounds in the parts per billion range.

2.7 Emerging Contaminant Sampling

Sampling and analysis for emerging contaminants (PFAS and 1,4-dioxane) in soil and groundwater samples shall be done in accordance with Sampling, Analysis and Assessment of Polyfluoroalkyl Substances (PFAS) November 2022 guidance (**Attachment C**).

2.8 Laboratory Analysis

Samples will be submitted to the laboratory for a standard turnaround time, which is estimated to be one to two weeks. The proposed sampling program is summarized in **Table 1**.

2.8.1 Analysis of Soil and Groundwater Samples

Collected soil and groundwater samples will be placed in pre-cleaned laboratory supplied glassware and placed in a cooler packed with ice for transport to the laboratory. Sample analysis will be provided by a New York State certified environmental laboratory; York Analytical Laboratories, Inc. of Stratford, Connecticut (NYSDOH Nos. 10854 and 12058).

Soil Sample Analysis

As discussed in Section 2.3 of this work plan, in order to ensure that the collection of soil samples is uniform throughout the Site, all borings will be sampled at the following five intervals:

- 0 to 2 feet below grade in unexcavated areas
- At the highest PID reading
- At the groundwater interface
- Just below the deepest observed contamination, staining, odors, PID reding (clean endpoint sample)

The soil samples collected for outside laboratory analysis will be analyzed for the following parameters:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d)13 of DER-10.
- Pesticides via EPA Method 8081
- PCBs via EPA Method 8082

- 21 PFAS Compounds via EPA Method 1633
- 1,4-dioxane via EPA Method 8270 SIM.

Groundwater Sample Analysis

The groundwater samples will be analyzed for the following parameters:

- Organic Compounds: Full Target Compound List + 30 (10 volatile organic compounds and 20 semi-volatile organic compounds) (TCL + 30) and highest concentrations tentatively identified compounds (TICs). The full target compound list plus the 30 (TCL +30) as defined in paragraph 2.4(d)15 of DER-10
- Inorganic Compounds: The full target analyte list (TAL) as defined in paragraph 2.4 (d) 13 of DER-10 – filtered and unfiltered.
- Pesticides via EPA Method 8081
- PCBs via EPA Method 8082
- 21 PFAS Compounds via EPA Method 1633
- 1,4-dioxane via EPA Method 8270 SIM.

2.8.2 Analysis of Soil Vapor Samples

Analytical procedures and corresponding reporting limits will be identified when reporting the sampling results. The reporting limits for the following five compounds shall be 0.2 micrograms per cubic meter or less: trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethene, carbon tetrachloride, and vinyl chloride. Samples will be analyzed for volatile organic compounds (VOCs) by USEPA Method TO-15 and compared to the NYSDOH Guidance Document. All samples will be analyzed by a New York State ELAP-certified environmental laboratory, York Analytical Laboratories, Inc. of Stratford, Connecticut (NYSDOH Nos. 10854 and 12058).

2.9 Management of Investigation Derived Wastes

Investigation derived waste includes contaminated soil, groundwater, and disposable sampling equipment generated during the remedial investigation.

Soil from borings will be placed in U.S. Department of Transportation (DOT) – approved drums. Soil removed from soil borings, not containerized will be placed into 55-gallon drums for disposal. Excess soil from the installation of monitoring wells will be placed in U.S. Department of Transportation (DOT) – approved drums. This material will either be disposed of at an appropriate off-site disposal facility or will bedisposed along with other soil during subsequent remedial activities to be implemented under the RAWP. Purge water generated during groundwater sampling will be containerized in drums and analyzed for VOCs. Final classification and disposal of purge water will be based on the results of this analysis and upon approval of the NYSDEC Project Manager.

Disposable sampling equipment (gloves, tubing, acetate liners, etc.) will be placed in heavy-duty plastic bags and disposed of properly.

3.0 QUALITY ASSURANCE PROJECT PLAN (QAPP)

The fundamental Quality Assurance (QA) objective with respect to accuracy, precision, and sensitivity of analysis for laboratory analytical data is to achieve the Quality Control (QC) acceptance of the analytical protocol. The accuracy, precision and completeness requirements will be addressed by the laboratory for all data generated.

Collected samples will be appropriately packaged, placed in coolers, and shipped via overnight courier or delivered directly to the analytical laboratory by field personnel. Samples will be containerized in appropriate laboratory provided glassware and shipped in plastic coolers. Samples will be preserved through the use of ice or cold-pak(s) to maintain a temperature of 4°C.

Dedicated disposable sampling materials will be used for both soil and groundwater samples (if collected), eliminating the need to prepare field equipment (rinsate) blanks. However, if non-disposable equipment is used, (stainless steel scoop, etc.) field rinsate blanks will be prepared at the rate of 1 for every eight samples collected.

Decontamination of non-dedicated sampling equipment will consist of the following:

- Gently tap or scrape to remove adhered soil;
- Rinse with tap water;
- Wash with alconox® detergent solution and scrub;
- Rinse with tap water;
- Rinse with distilled or deionized water.

Prepare field blanks by pouring distilled or deionized water over decontaminated equipment and collecting the water in laboratory provided containers. Trip blanks will accompany samples each time they are transported to the laboratory. Matrix spike and matrix spike duplicates (MS/MSD) will be collected at the rate of one per 20 samples submitted to the laboratory. Laboratory reports will include ASP category B deliverables for use in the preparation of a data usability report (DUSR). The DUSR will be applicable to all samples collected during the RI. Performance monitoring samples will be in a results-only format. The QAPP prepared for the Site is provided in **Attachment D**.

3.1 Soil and Groundwater Samples

Dedicated disposable materials (polyethylene tubing, dedicated samplers, etc.) will be used for collecting groundwater samples, and for soil samples (disposable acetate liners) therefore, field equipment (rinsate) blanks will not be part of the QA/QC program. Trip blanks will accompany samples each time they are transported to the laboratory.

3.2 Soil Vapor Samples

Extreme care will be taken during all aspects of sample collection to ensure that sampling error is minimized, and high-quality data are obtained. The sampling team members will avoid actions (e.g., using permanent marker pens and wearing freshly dry-cleaned clothes or personal fragrances) which can cause sample interference in the field. A tracer gas, helium, will be used in

accordance with NYSDOH sampling protocols to serve as a QA/QC device to verify the integrity of the soil vapor probe seals. QA/QC protocols will be followed for sample collection and laboratory analysis, such as use of certified clean sample devices, meeting sample holding times and temperatures, sample accession, and chain of custody.

Samples will be delivered to the analytical laboratory as soon as possible after collection. The laboratory analyzes QC samples with each analytical batch, including a Method Blank (MB), Laboratory Control Sample (LCS), and a Laboratory Control Sample Duplicate (LCSD). Internal standards are added to all calibration standards, samples, and blanks to verify that the analytical system is in control.

3.3 Reporting of Results

Sample analysis will be provided by a New York State certified environmental laboratory. Laboratory reports will include ASP category B deliverables for use in the preparation of a data usability summary report (DUSR). All results will be provided in accordance with the NYSDEC Environmental Information Management System (EIMS) electronic data deliverable (EDD) format (EQuIS).

3.3.1 Daily Reports

Daily reports will be submitted to the NYSDEC and NYSDOH Project Managers by the end of the following the reporting period and will include:

- An update of progress made during the reporting day;
- Locations of work
- A summary of any and all complaints with relevant details (names, phone numbers, etc.);
- A summary of CAMP findings, including excursions;
- An explanation of notable Site conditions

Daily reports are not intended to be the mode of communication for notification to the NYSDEC of emergencies (accidents, spills), requests for changes to the RAWP or other sensitive or time critical information. However, such conditions must also be included in the daily reports. Emergency conditions and changes to the RAWP will be addressed directly to the NYSDEC Project Manager via personal communication.

Daily reports will include a description of daily activities keyed to a map for the Site that identifies work areas. These reports will include a summary of air sampling results, odor and dust problems and corrective actions, and any and all complaints received from the public. A Site Map that shows the BCP Site Boundary is attached in **Figure 3**. The NYSDEC assigned project number (C203159) will appear on all reports.

3.3.2 Monthly Reports

Monthly reports will be provided to the NYSDEC and NYSDOH Project Managers by the 10th of each month covering the previous calendar month reporting period and will include:

- Activities relative to the Site during the previous reporting period and those anticipated

for the next reporting period, including a quantitative presentation of work performed (e.g., number of borings completed, etc.);
- Description of approved activity modifications, including changes of work scope and/or schedule;
- Sampling results received following internal data review and validation, as applicable; and,
- An update of the remedial schedule including the percentage of project completion, unresolved delays encountered or anticipated that may affect the future schedule, and efforts made to mitigate such delays.

All daily and monthly reports will be included in the Final Engineering Report.

3.4 Data Usability Summary Report

The Data Usability Summary Report (DUSR) provides a thorough evaluation of analytical data without third party data validation. Third party validation is a requirement and will be completed on analytical laboratory data per NYSDEC DER-10. The primary objective of a DUSR is to determine whether or not the data, as presented, meets the site/project specific criteria for data quality and data use. Verification and/or performance monitoring samples collected under this RIWP will be reviewed and evaluated in accordancewith the Guidance for the Development of Data Usability Summary Reports as presented in Appendix 2B of NYSDEC DER-10.

A qualified Data Validator will review the laboratory reports and prepare a DUSR for the sampling event. The completed DUSR for verification/performance samples collected during implementation of this RIWP will be included in the Remedial Investigation Report prior to its formal approval. The DUSR will be performed by Rene Cohen of Premier Environmental Services, Inc. Her resume is provided in **Attachment B**.

4.0 HEALTH AND SAFETY PLAN

The Health and Safety Plan (HASP) takes into account the specific hazards inherent in conducting the RI and presents the minimum requirements which are to be met by Touchstone Environmental Geology, P.C. (Touchstone), its subcontractors, and other personnel in order to avoid and, if necessary, protect against health and/or safety hazards. A HASP has been prepared and is provided in **Attachment E** of this work plan.

Sub-contractors will have the option of adopting this HASP or developing their own site-specific document. If a subcontractor chooses to prepare their own HASP, it must meet the minimum requirements as detailed in the RI HASP prepared by Touchstone and must be made available to Touchstone and the NYSDEC.

Activities performed under the HASP will comply with applicable parts of OSHA Regulations, primarily 29 CFR Parts 1910 and 1926. Modifications to the HASP may be made with the approval of the Touchstone Site Safety Manager (SSM) and/or Project Manager (PM). Resumes for key personnel are provided in **Attachment B**.

5.0 COMMUNITY AIR MONITORING PLAN

The Community Air Monitoring Plan (CAMP) provides measures for protection for on-site workers and the downwind community (i.e., off-site receptors including residences, businesses, and on-site commercial workers) from potential airborne contaminant releases resulting from investigation activities. CAMP monitoring and reporting is required for all "ground intrusive" activities. The NYSDEC and NYCDOH will be notified separately for any and all CAMP exceedances within 24 hours.

The action levels specified require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that the investigation work did not spread contamination off-site through the air.

The primary concerns during the investigation are odors from VOCs. The CAMP for this investigation is provided as **Attachment F**.

6.0 REMEDIAL INVESTIGATION REPORT

Following completion of the investigation and receipt of the analytical data, Touchstone will prepare a Remedial Investigation Report (RIR) in accordance with NYSDEC DER-10 Section 3.14. The RIR will include the following:

1. A description of the work and all the relevant information which was performed under the RI including a technical overview and findings.

2. Any modification from this work scope and the reason for the modifications;

3. The nature and extent of contaminants in all media (soil, groundwater, vapor) and the potential for off-site migration using the state standards, criteria, and guidance identified in Section 2.1 of this report.

4. Soil, and groundwater conditions that were observed;

5. Analytical data in tabular form comparing results to part 375-6 SCOs;

6. Cross sections and data figures;

7. Laboratory analytical data, sampling logs and well completion logs for all samples and areas covered by the investigation;

8. Scaled drawings showing the locations of temporary sampling points, monitoring wellsand surface water sampling locations;

9. A Qualitative Human Health Exposure Assessment;

10. The results of the DUSR;

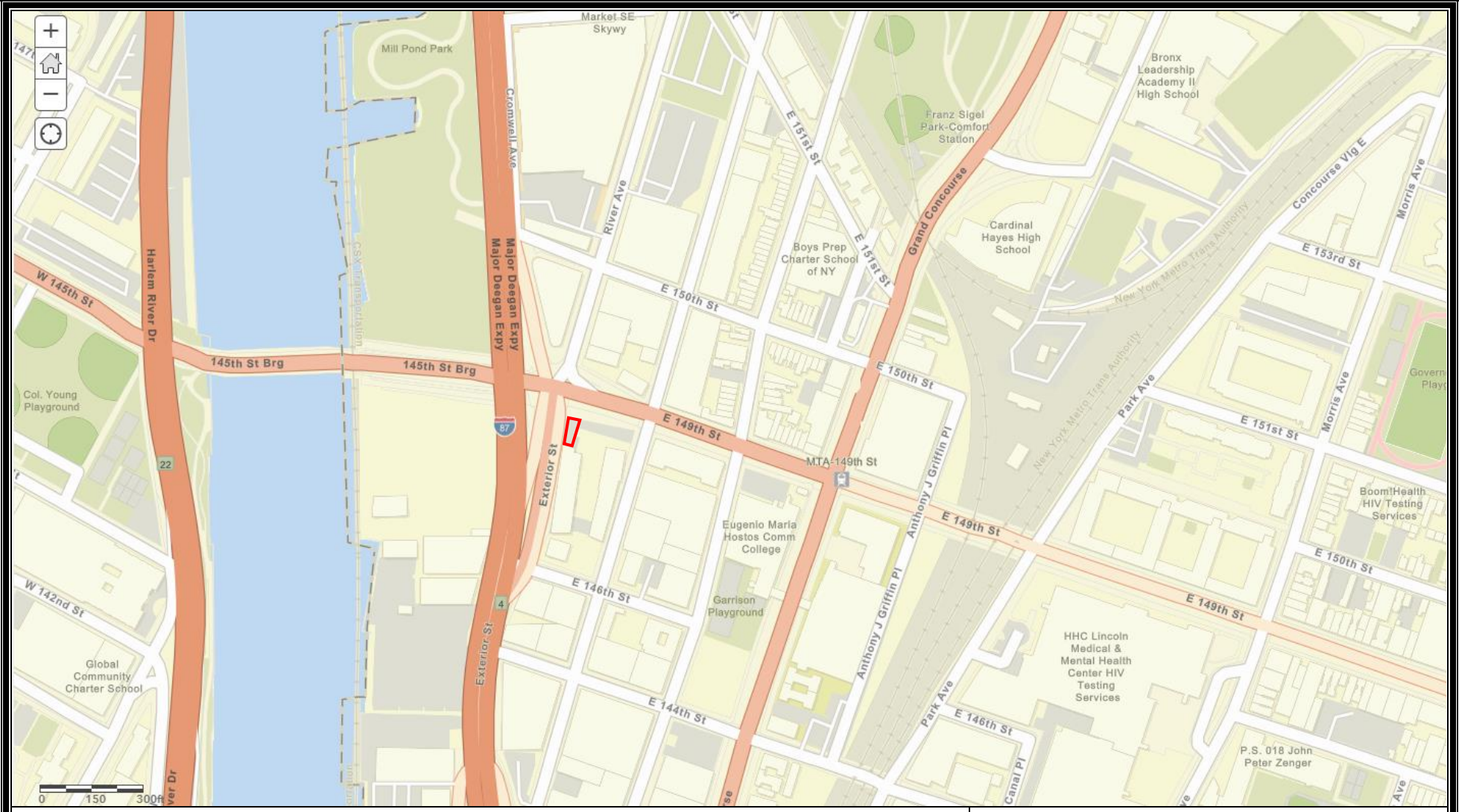
11. Stratigraphic logs which include soil/rock physical descriptions, well installation details, well development data including volumes purged, and field instrument readings detected during drilling for each soil boring, test pit and monitoring well.

12. Groundwater elevation contour maps with flow direction specified for each set of static water level measurements for each aquifer where monitoring wells/piezometers were installed for flow direction.

7.0 SCHEDULE

The estimated duration of the full RI activity is two weeks total field time. The anticipated schedule for completing the RI activities is as follows:

Schedule Task	Estimated Date
Execution of Brownfield Cleanup Agreement	February 2023
NYSDEC Approval of RIWP	May 2023
Mobilize equipment to the Site (begin)	Within 3 weeks of approval of RIWP
Complete Field Work	Within 2 weeks of mobilization date
Receive all Laboratory Reports	Within 2 weeks of completion of field work
Receive all Laboratory Deliverables	Within 4 weeks of completion of field work
Receive DUSR	Within 8 weeks of completion of field work
Submit Remedial Investigation Report	Within 3 weeks of Receipt of DUSR (October 2022)
Distribute Fact Sheet on RI Results and Comment period on RAWP (if submitted with RIR)	Within 16 weeks of completion of field work - Subject to DEC / DOH Approval



Source: ArcGIS My Map

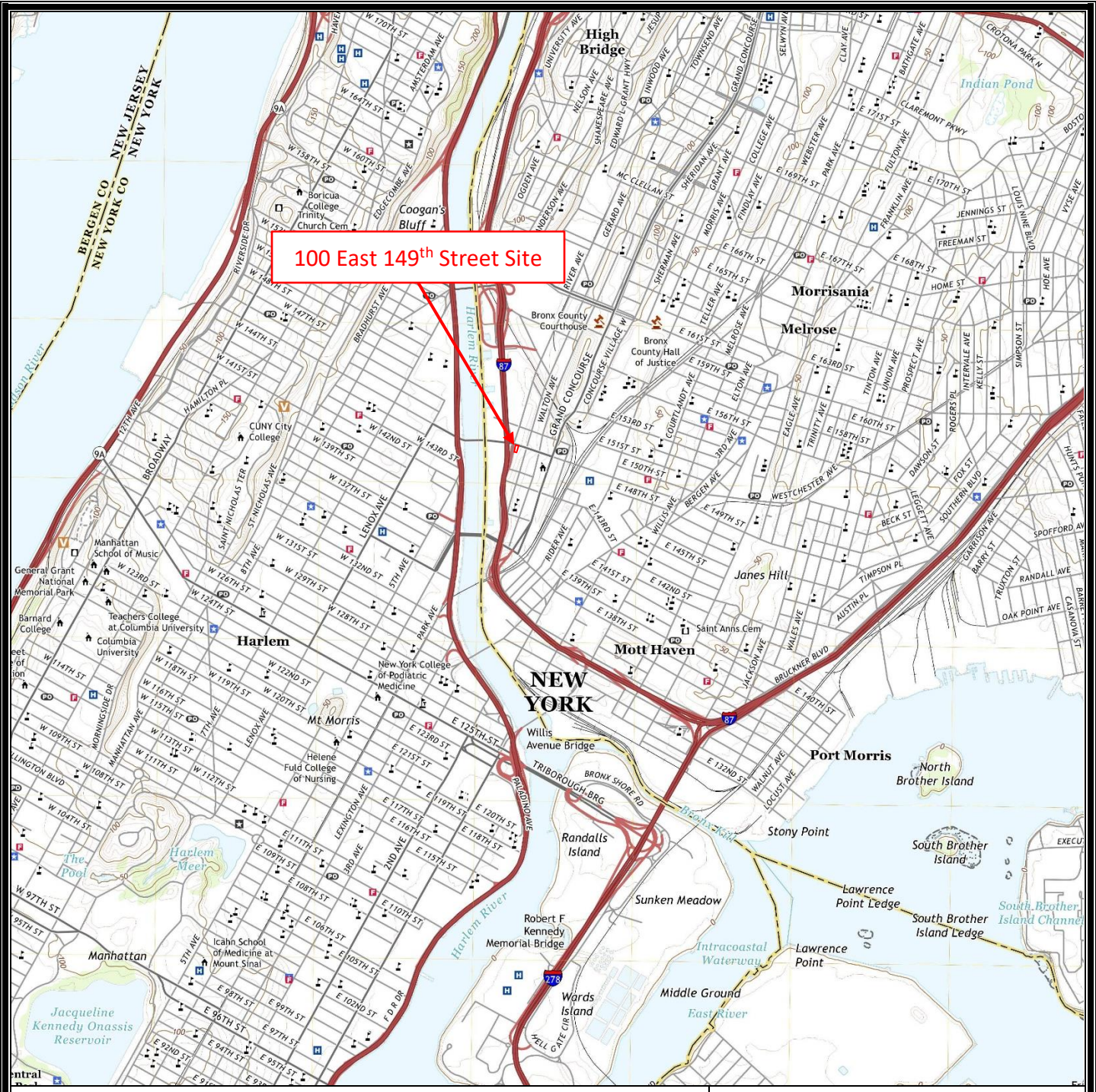
KEY:
BCP Site Boundary

Figure 1: Site Location Map

100 East 149th Street
Bronx, New York

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

(Not to Scale)



USGS 7.5 Minute *Central Park, NY* Quadrangle
Created: 2019

KEY:
BCP Site

Figure 2: Topographic Map

100 East 149th Street
Bronx, New York

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

(Not to Scale)

Source: ArcGIS My Map

KEY:
BCP Site Boundary

Figure 2: Site Boundary Map

100 East 149th Street
Bronx, New York

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

(Not to Scale)

SCALE 1" = 14'

Key:

- Proposed Soil Probe Location
- Site Boundary

Figure 4: Proposed Soil Boring Locations

100 East 149th Street
Bronx, New York

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

SCALE 1" = 14'

Key:

- Proposed Monitoring Well Location
- Site Boundary

Figure 5: Proposed Monitoring Well Locations

100 East 149th Street
Bronx, New York

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.

SCALE 1" = 14'

Key:

- Proposed Soil Vapor Probe Location
- Site Boundary
- Sidewalk

Figure 6: Proposed Soil Vapor Sampling Locations

100 East 149th Street
Bronx, New York

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

TABLE 1

SUMMARY OF SAMPLING PROGRAM RATIONALE AND ANALYSIS

Matrix	Location	Approximate Number of Samples	Rationale for Sampling	Laboratory Analysis
Subsurface Soil (0-2 feet below grade in unexcavated areas)	7 borings throughout the Site (23SP1 through 23SP7) 3 borings off-Site: 2 borings to the west in the sidewalk along Exterior Street (23SP8 and 23SP9), 1 boring to the north in the sidewalk along East 149th Street (23SP10)	10	To assess soil quality at the Site.	TCL + 10 VOCs and TICs EPA Method 8260C, TCL + 20 SVOCs and TICs EPA Method 8270, Pesticides EPA Method 8081, PCBs EPA Method 8082, 21 PFAS Compounds by EPA Method 1633, 1,4-dioxane EPA 8270 SIM, Full Target List inorganic compounds as defined in paragraph 2.4 (d) of DER-10
Subsurface Soil (at highest PID reading)		10		
Subsurface Soil (at groundwater table)		10		
Subsurface Soil (just below the deepest observed contamination (clean endpoint sample))		10		
Total (Soils)		40		
Groundwater (water table)	7 monitoring wells throughout the Site (23MW1 through 23MW7)	7	To assess groundwater quality at the Site.	TCL + 10 VOCs and TICs EPA Method 8260C, TCL + 20 SVOCs and TICs EPA Method 8270, Pesticides EPA Method 8081, PCBs EPA Method 8082, 21 PFAS Compounds by EPA Method 1633, 1,4-dioxane EPA 8270 SIM, Full Target List inorganic compounds as defined in paragraph 2.4 (d) of DER-10 (filtered and unfiltered metals)
	2 monitoring wells to the west in the sidewalk along Exterior Street (23MW8 and 23MW9), 1 monitoring well to the north in the sidewalk along East 149th Street (23MW10)	3		
Total (Groundwater)		10		
Soil Gas (depth to be determined)	4 soil gas implants to be installed across the Site (23SV1 through 23SV4)	4	Evaluate soil gas across the Site.	VOCs via EPA Method TO-15.
	2 soil gas implants to be installed off-Site: 1 to the west in the sidewalk along Exterior Street (23SV5), 1 to the north in the sidewalk along East 149th Street (23SV6)	2		
Total (Soil Gas)		6		
Soil Duplicate	One duplicate soil sample per 20 samples	2	To meet requirements of QA / QC program	TCL + 10 VOCs and TICs EPA Method 8260C, TCL + 20 SVOCs and TICs EPA Method 8270, Pesticides EPA Method 8081, PCBs EPA Method 8082, 21 PFAS Compounds by EPA Method 1633, 1,4-dioxane EPA 8270 SIM, Full Target List inorganic compounds as defined in paragraph 2.4 (d) of DER-10
Groundwater Duplicate	One duplicate groundwater sample per 20 samples	1	To meet requirements of QA / QC program	TCL + 10 VOCs and TICs EPA Method 8260C, TCL + 20 SVOCs and TICs EPA Method 8270, Pesticides EPA Method 8081, PCBs EPA Method 8082, 21 PFAS Compounds by EPA Method 1633, 1,4-dioxane EPA 8270 SIM, Full Target List inorganic compounds as defined in paragraph 2.4 (d) of DER-10
Field Blank for PFAS	One field blank groundwater sample per day	5	To meet requirements of QA / QC program	21 PFAS Compounds by EPA Method 1633
Soil MS/MSD	Matrix spike and Matrix spike duplicates at therate 5%	2	To meet requirements of QA / QC program	TCL + 10 VOCs and TICs EPA Method 8260C, TCL + 20 SVOCs and TICs EPA Method 8270, Pesticides EPA Method 8081, PCBs EPA Method 8082, 21 PFAS Compounds by EPA Method 1633, 1,4-dioxane EPA 8270 SIM, Full Target List inorganic compounds as defined in paragraph 2.4 (d) of DER-10
Groundwater MS/MSD	Matrix spike and Matrix spike duplicates at therate 5%	1	To meet requirements of QA / QC program	TCL + 10 VOCs and TICs EPA Method 8260C, TCL + 20 SVOCs and TICs EPA Method 8270, Pesticides EPA Method 8081, PCBs EPA Method 8082, 21 PFAS Compounds by EPA Method 1633, 1,4-dioxane EPA 8270 SIM, Full Target List inorganic compounds as defined in paragraph 2.4 (d) of DER-10
Trip Blanks	One laboratory prepared trip blank to accompany samples each time they are delivered to the laboratory.	5	To meet requirements of QA / QC program	TCL + 10 VOCs and TICs EPA Method 8260C
Total (QA/QC Samples)		16		

TABLE 2
SAMPLE COLLECTION AND ANALYSIS PROTOCOLS

Sample Type	Matrix	Sampling Device	Parameter	Sample Container	Sample Preservation	Analytical Method#	CRQL / MDLH	HoldingTime
Grab	Soil	Terra Core Sampler dispensed into 40mL vials	VOCs	(4) 40 mL vials (Soil VOAs)	Cool to 4° C (2) 40 mL vials w/5mL water, (1) 40 mL vial w/10 mL methanol	EPA Method 8260C (test Method 5035A)	Compound Specific (1-5 ug/kg)	48 hours / 14 days if frozen or extruded to methanol
Grab	Soil	Scoop Directly into Jar	SVOCs	(1) 8 oz jar	Cool to 4° C	EPA Method 8270D	Compound Specific (1-5 ug/kg)	14 days 40 days after extraction
Grab	Soil	Scoop Directly into Jar	Pest/PCBs	From 8 oz jar above	Cool to 4° C	EPA Method 8081/8082A	Compound Specific (1-5 ug/kg)	14 days 40 days after extraction
Grab	Soil	Scoop Directly into Jar	Metals	From 8 oz jar above	Cool to 4° C	TAL Metals 6010	Compound Specific (0.1-1 mg/kg)	6 months
Grab	Soil	Scoop Directly into Jar	1,4-dioxane	(1) 8 oz jar	Cool to 4° C Water Ice Only	Method 8270 SIM	[0.1 mg/kg (ppm)]	14 days 40 days after extraction
Grab	Soil	Scoop Directly into Jar	PFAS Target Analyte List	(1) 8 oz jar	Cool to 4° C Water Ice Only	EPA Method 1633	Compound Specific [but less than 1 ug/kg (ppb)]	14 days 40 days after extraction
Grab	Water	Pump Tubing	VOCs	(2) 40 mL vials	Cool to 4° C 1:1 HCL	EPA Method 8260C	Compound Specific (1-5 ug/kg)	14 days
Grab	Water	Pump Tubing	SVOCs	(1) 1 Liter Amber Bottle	Cool to 4° C	EPA Method 8270D	Compound Specific (1-5 ug/kg)	7 days 40 days after extraction
Grab	Water	Pump Tubing	Pest/PCBs	(2) 1 Liter Amber Bottles	Cool to 4° C	EPA Method 8081B/8082A	Compound Specific (1-5 ug/kg)	7 days 40 days after extraction
Grab	Water	Pump Tubing	Total Metals	(1) 100 ml	HNO3	TAL Metals 6010	Compound Specific (1-5 ug/kg)	6 months
Grab	Water	Pump Tubing	Dissolved Metals	(1) 100 ml	Cool to 4° C	TAL Metals 6010	Compound Specific (1-5 ug/kg)	6 months
Grab	Water	Pump Tubing	1,4-dioxane	(1) 1 Liter Amber Bottle	Cool to 4° C Water Ice Only	Method 8270 SIM	[0.35 ug/L (ppb)]	7 days 40 days after extraction
Grab	Water	Pump Tubing	PFAS	(2) 275 mL HDPE bottle, no Teflon Liner	Cool to 4° C Water Ice Only	EPA Method 1633	Compound Specific [but less than 2 ng/L (ppt)]	14 days 28 days after extraction
8 hr Avg	Soil Vapor	6-Liter Summa Canister	VOCs	6-Liter Summa Canister	None	EPA Method TO-15	< 0.5 ppbv	30 days if pressure Difference between sampling and analysis if <5psi
8 hr Avg	Ambient Air	6-Liter Summa Canister	VOCs	6-Liter Summa Canister	None	EPA Method TO-15	< 0.5 ppbv	30 days if pressure Difference between sampling and analysis if <5psi

Notes:
All holding times listed are from Verified Time of Sample Receipt (VTSR) unless noted otherwise. * Holding time listed is from time of sample collection.
The number in parentheses in the "Sample Container" column denotes the number of containers needed.
Triple volume required when collected MS/MSD samples
The number of trip blanks are estimated.
CRQL / MDL = Contract Required Quantitation Limit / Method Detection Limit
QA / QC Frequencies: One soil duplicate sample and one groundwater duplicate sample will be collected per 20 samples. One field blank groundwater sample will be collected per day. Groundwater and soil MS/MSD samples will be collected at the rate of 5%. One laboratory prepared trip blank will accompany samples each time they are delivered to thelaboratory.

ATTACHMENT A
PREVIOUS REPORTS

100 EAST 149TH STREET

BRONX, NEW YORK

Remedial Investigation Report

NYC VCP Site Number: 19TMP1170X

Prepared for:

OER

100 Gold St., 2nd Floor, New York, NY 10038

(Ph) 212-788-2676 (Email) scatalanotto@dep.nyc.gove

Prepared by:

Eastern Environmental Solutions

258 Line Road, Manorville, New York 11949

Phone (631) 727-2700

Fax (631) 727-2777

July, 2019

SCALE 1" = 14'

EASTERN ENVIRONMENTAL SOLUTIONS, INC.
MANORVILLE, NEW YORK

FIGURE 1
SITE LOCATION AND LAYOUT
100 E. 149th STREET
BRONX, NEW YORK

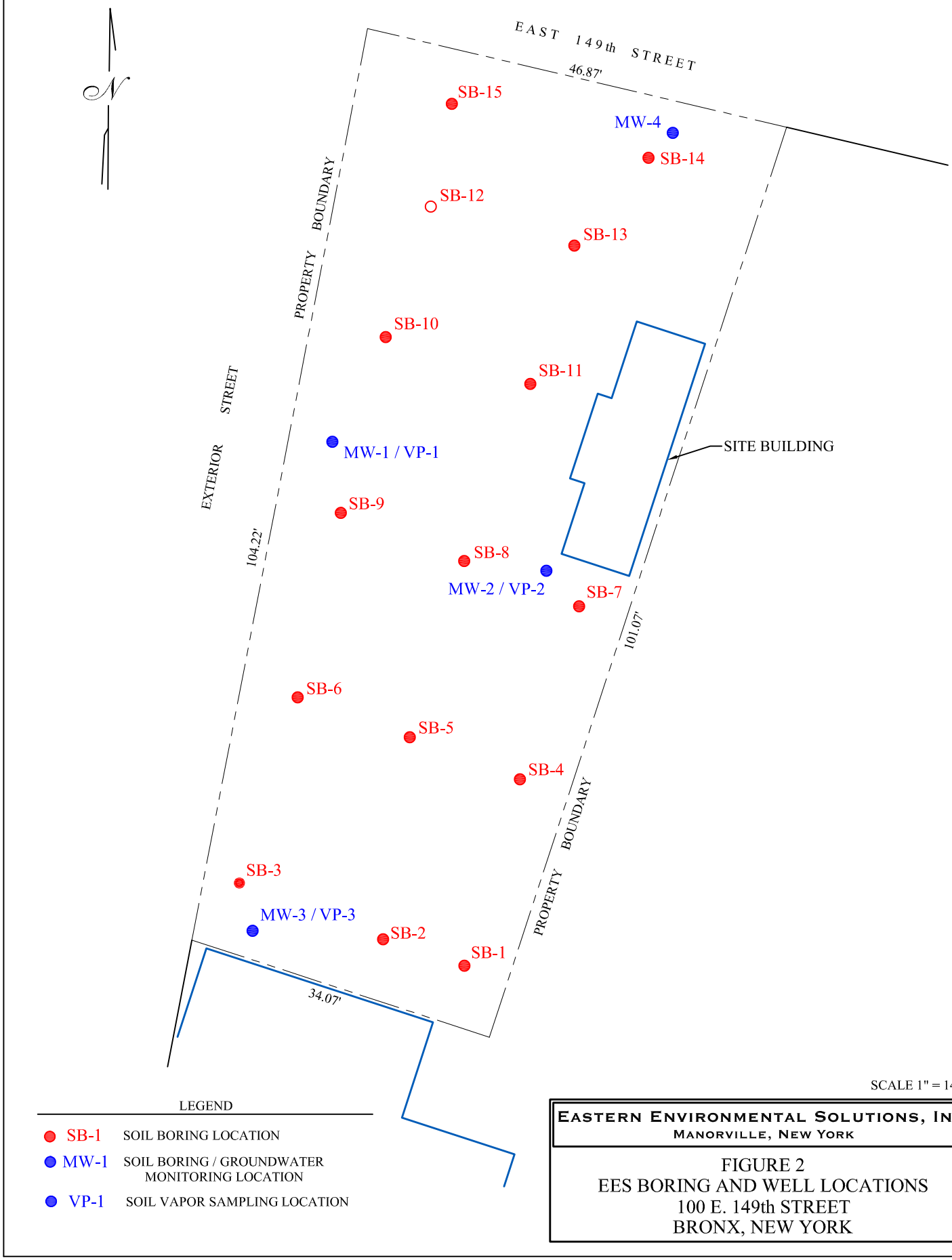

EAST 149th STREET
46.87'
SB-15
MW-4
SB-14
SB-12
SB-13
PROPERTY BOUNDARY
SB-10
SB-11
EXTERIOR STREET
MW-1 / VP-1
SITE BUILDING
SB-9
104.22'
SB-8
MW-2 / VP-2
SB-7
101.07'
SB-6
SB-5
SB-4
PROPERTY BOUNDARY
SB-3
MW-3 / VP-3
SB-2
SB-1
34.07'
LEGEND
SB-1 SOIL BORING LOCATION
MW-1 SOIL BORING / GROUNDWATER MONITORING LOCATION
VP-1 SOIL VAPOR SAMPLING LOCATION
SCALE 1" = 14'
EASTERN ENVIRONMENTAL SOLUTIONS, INC.
MANORVILLE, NEW YORK
FIGURE 2
EES BORING AND WELL LOCATIONS
100 E. 149th STREET
BRONX, NEW YORK

Table 1
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID York ID Sampling Date Client Matrix	SB-1 (10-15') 1/4/2019 Soil	SB-5 (10'-15') 1/4/2019 Soil	SB-8 (10'-15') 1/4/2019 Soil	SB-11 (10'-15') 1/4/2019 Soil	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential
Compound	Result	Result	Result	Result		
Volatile Organics, CP-51 **Dilution Factor**	mg/Kg 1	mg/Kg 1	mg/Kg 100	mg/Kg 100	mg/Kg	mg/Kg
1,2,4-Trimethylbenzene	0.0400	0.0450	1.500	**5.100**	3.6	52
Benzene	0.00290	0.0470	**1.200**	**0.300**	0.06	4.8
Ethyl Benzene	0.00290	0.0470	**1.900**	**6.800**	1	41
n-Propylbenzene	0.00450	0.110	1.600	**9.700**	3.9	100
Toluene	0.00290	0.0230	**1.400**	0.300	0.7	100
Xylenes, Total	0.00860	0.0550	**3.900**	**4.100**	1.6	100
Semi-Volatiles, CP-51 **Dilution Factor**	mg/Kg 2	mg/Kg 5	mg/Kg 2	mg/Kg 2	mg/Kg	mg/Kg
Benzo(a)anthracene	0.210	**2.300**	0.410	0.130	1	1
Benzo(a)pyrene	0.280	**4.500**	0.470	0.0850	22	1
Benzo(b)fluoranthene	0.220	**3.300**	0.310	0.0940	1.7	1
Benzo(k)fluoranthene	0.200	**2.900**	0.210	0.0970	1.7	3.9
Chrysene	0.260	**2.500**	0.510	0.130	1	3.9
Dibenzo(a,h)anthracene	0.0520	**1.200**	0.0490	0.0500	1000	0.33
Indeno(1,2,3-cd)pyrene	0.210	**4.400**	0.300	0.0500	8.2	0.5
Metals, RCRA **Dilution Factor**	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg	mg/Kg
Mercury by 7473 **Dilution Factor**	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg	mg/Kg
Mercury	**0.783**	0.304	0.306	0.193	0.73	0.81
Total Solids **Dilution Factor**	% 1	% 1	% 1	% 1		

Table 1 (cont.)
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID York ID Sampling Date Client Matrix	SB-1 (10-15') 1/4/2019 Soil	SB-5 (10'-15') 1/4/2019 Soil	SB-8 (10'-15') 1/4/2019 Soil	SB-11 (10'-15') 1/4/2019 Soil	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives- Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives - Restricted Residential
Compound	Result	Result	Result	Result		
Metals, RCRA **Dilution Factor**	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg	mg/Kg
Mercury by 7473 **Dilution Factor**	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg 1	mg/Kg	mg/Kg
Mercury	**0.783**	0.304	0.306	0.193	0.73	0.81
Total Solids **Dilution Factor**	% 1	% 1	% 1	% 1		

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

Table 2
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		SB1 0-2'		SB1 10'		SB2 0-2'		SB2 10'		SB3 0-2'		SB3 10'		SB4 0-2'		SB4 10'		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
York ID		19C0312-01		19C0312-02		19C0312-03		19C0312-04		19C0312-05		19C0312-06		19C0312-07		19C0312-08							
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019							
Client Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil							
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q						
Volatile Organics, 8260 - Comprehensive		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1		1		1		100		1		1		1		1							
1,1,1,2-Tetrachloroethane	630-20-6	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,1,1-Trichloroethane	71-55-6	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	0.68	100	0.68
1,1,2,2-Tetrachloroethane	79-34-5	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,1,2-Trichloroethane	79-00-5	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,1-Dichloroethane	75-34-3	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	26	240	480	0.27	19	0.27
1,1-Dichloroethylene	75-35-4	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	0.33	100	0.33
1,2,3-Trichlorobenzene	87-61-6	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,2,3-Trichloropropane	96-18-4	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,2,4-Trichlorobenzene	120-82-1	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,2,4-Trimethylbenzene	95-63-6	0.00410	J	0.00260	U	0.00330	U	**8.200**	D	0.00330	U	0.00460	J	0.00260	U	0.00210	U	52	190	380	3.6	47	3.6
1,2-Dibromo-3-chloropropane	96-12-8	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,2-Dibromoethane	106-93-4	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,2-Dichlorobenzene	95-50-1	0.00320	U	0.00260	U	0.00330	U	**1.200**	JD	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	1.1	100	1.1
1,2-Dichloroethane	107-06-2	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	3.1	30	60	0.02	2.3	0.02
1,2-Dichloropropane	78-87-5	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
1,3,5-Trimethylbenzene	108-67-8	0.00320	U	0.00260	U	0.00330	U	2.400	D	0.00330	U	0.00250	U	0.00260	U	0.00210	U	52	190	380	8.4	47	8.4
1,3-Dichlorobenzene	541-73-1	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	49	280	560	2.4	17	2.4
1,4-Dichlorobenzene	106-46-7	0.00320	U	0.00260	U	0.00330	U	**2.500**	D	0.00330	U	0.00250	U	0.00260	U	0.00210	U	13	130	250	1.8	9.8	1.8
1,4-Dioxane	123-91-1	0.0630	U	0.0520	U	0.0650	U	**15**	U	0.0660	U	0.0500	U	0.0530	U	0.0410	U	13	130	250	0.1	9.8	0.1
2-Butanone	78-93-3	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	0.12	100	0.12
2-Hexanone	591-78-6	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
4-Methyl-2-pentanone	108-10-1	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Acetone	67-64-1	0.0150		0.00560	J	0.0150		**1.500**	U	0.00850	J	0.00500	U	0.00880	J	0.00770	J	100	500	1000	0.05	100	0.05
Acrolein	107-02-8	0.00630	U	0.00520	U	0.00650	U	1.500	U	0.00660	U	0.00500	U	0.00530	U	0.00410	U	~	~	~	~	~	~
Acrylonitrile	107-13-1	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Benzene	71-43-2	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	4.8	44	89	0.06	2.9	0.06
Bromochloromethane	74-97-5	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Bromodichloromethane	75-27-4	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Bromoform	75-25-2	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Bromomethane	74-83-9	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Carbon disulfide	75-15-0	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Carbon tetrachloride	56-23-5	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	2.4	22	44	0.76	1.4	0.76
Chlorobenzene	108-90-7	0.00320	U	0.00260	U	0.00330	U	**5.500**	D	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	1.1	100	1.1
Chloroethane	75-00-3	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Chloroform	67-66-3	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	49	350	700	0.37	10	0.37
Chloromethane	74-87-3	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
cis-1,2-Dichloroethylene	156-59-2	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	0.25	59	0.25

Table 2 (cont.)
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		SB1 0-2'		SB1 10'		SB2 0-2'		SB2 10'		SB3 0-2'		SB3 10'		SB4 0-2'		SB4 10'		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
York ID		19C0312-01		19C0312-02		19C0312-03		19C0312-04		19C0312-05		19C0312-06		19C0312-07		19C0312-08							
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019							
Client Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil							
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q						
cis-1,3-Dichloropropylene	10061-01-5	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Cyclohexane	110-82-7	0.00320	U	0.00260	U	0.00330	U	3.600	D	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Dibromochloromethane	124-48-1	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Dibromomethane	74-95-3	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Dichlorodifluoromethane	75-71-8	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Ethyl Benzene	100-41-4	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	41	390	780	1	30	1
Hexachlorobutadiene	87-68-3	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Isopropylbenzene	98-82-8	0.00320	U	0.00260	U	0.00330	U	2.700	D	0.00330	U	0.00370	J	0.00260	U	0.00210	U	~	~	~	~	~	~
Methyl acetate	79-20-9	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Methyl tert-butyl ether (MTBE)	1634-04-4	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	0.93	62	0.93
Methylcyclohexane	108-87-2	0.00390	J	0.00260	U	0.00330	U	11	D	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Methylene chloride	75-09-2	0.00860	J	0.00520	U	0.00650	U	**1.500**	U	0.00660	U	0.00500	U	0.00530	U	0.00410	U	100	500	1000	0.05	51	0.05
n-Butylbenzene	104-51-8	0.00320	U	0.00260	U	0.00330	U	2.800	D	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	12	100	12
n-Propylbenzene	103-65-1	0.00320	U	0.00260	U	0.00330	U	**6.500**	D	0.00330	U	0.0120		0.00260	U	0.00210	U	100	500	1000	3.9	100	3.9
o-Xylene	95-47-6	0.00320	U	0.00260	U	0.00330	U	1	JD	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
p- & m- Xylenes	179601-23-1	0.00630	U	0.00520	U	0.00650	U	3.900	D	0.00660	U	0.00500	U	0.00530	U	0.00410	U	~	~	~	~	~	~
p-Isopropyltoluene	99-87-6	0.00320	U	0.00260	U	0.00330	U	1.500	D	0.00330	U	0.00390	J	0.00260	U	0.00210	U	~	~	~	~	~	~
sec-Butylbenzene	135-98-8	0.00320	U	0.00260	U	0.00330	U	2.200	D	0.00330	U	0.00410	J	0.00260	U	0.00210	U	100	500	1000	11	100	11
Styrene	100-42-5	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
tert-Butyl alcohol (TBA)	75-65-0	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
tert-Butylbenzene	98-06-6	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	5.9	100	5.9
Tetrachloroethylene	127-18-4	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	19	150	300	1.3	5.5	1.3
Toluene	108-88-3	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	0.7	100	0.7
trans-1,2-Dichloroethylene	156-60-5	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	100	500	1000	0.19	100	0.19
trans-1,3-Dichloropropylene	10061-02-6	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
trans-1,4-dichloro-2-butene	110-57-6	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Trichloroethylene	79-01-6	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	21	200	400	0.47	10	0.47
Trichlorofluoromethane	75-69-4	0.00320	U	0.00260	U	0.00330	U	0.730	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	~	~	~	~	~	~
Vinyl Chloride	75-01-4	0.00320	U	0.00260	U	0.00330	U	**0.730**	U	0.00330	U	0.00250	U	0.00260	U	0.00210	U	0.9	13	27	0.02	0.21	0.02
Xylenes, Total	1330-20-7	0.00950	U	0.00790	U	0.00980	U	**4.900**	D	0.0100	U	0.00740	U	0.00790	U	0.00620	U	100	500	1000	1.6	100	0.26
Semi-Volatiles, 8270 - Comprehensive		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		2		2		2		10		10		10		2		2							
1,1-Biphenyl	92-52-4	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0502	JD	0.0432	U	0.0432	U	~	~	~	~	~	~
1,2,4,5-Tetrachlorobenzene	95-94-3	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
1,2,4-Trichlorobenzene	120-82-1	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
1,2-Dichlorobenzene	95-50-1	0.0495	U	0.0501	U	0.0471	U	**5.100**	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	100	500	1000	1.1	100	1.1
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
1,3-Dichlorobenzene	541-73-1	0.0495	U	0.0501	U	0.0471	U	**5.100**	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	49	280	560	2.4	17	2.4
1,4-Dichlorobenzene	106-46-7	0.0495	U	0.0501	U	0.0471	U	**5.100**	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	13	130	250	1.8	9.8	1.8
2,3,4,6-Tetrachlorophenol	58-90-2	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~

Table 2 (cont.)
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		SB1 0-2'		SB1 10'		SB2 0-2'		SB2 10'		SB3 0-2'		SB3 10'		SB4 0-2'		SB4 10'		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
York ID		19C0312-01		19C0312-02		19C0312-03		19C0312-04		19C0312-05		19C0312-06		19C0312-07		19C0312-08							
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019							
Client Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil							
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q						
2,4,5-Trichlorophenol	95-95-4	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2,4,6-Trichlorophenol	88-06-2	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2,4-Dichlorophenol	120-83-2	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2,4-Dimethylphenol	105-67-9	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2,4-Dinitrophenol	51-28-5	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
2,4-Dinitrotoluene	121-14-2	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2,6-Dinitrotoluene	606-20-2	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2-Chloronaphthalene	91-58-7	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2-Chlorophenol	95-57-8	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
2-Methylnaphthalene	91-57-6	0.0495	U	0.0727	JD	0.0471	U	50.800	D	0.0508	U	0.169	D	0.0432	U	0.310	D	~	~	~	~	~	~
2-Methylphenol	95-48-7	0.0495	U	0.0501	U	0.0471	U	**5.100**	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	100	500	1000	0.33	100	0.33
2-Nitroaniline	88-74-4	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
2-Nitrophenol	88-75-5	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
3- & 4-Methylphenols	65794-96-9	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
3,3-Dichlorobenzidine	91-94-1	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
3-Nitroaniline	99-09-2	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
4,6-Dinitro-2-methylphenol	534-52-1	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
4-Bromophenyl phenyl ether	101-55-3	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
4-Chloro-3-methylphenol	59-50-7	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
4-Chloroaniline	106-47-8	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
4-Chlorophenyl phenyl ether	7005-72-3	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
4-Nitroaniline	100-01-6	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
4-Nitrophenol	100-02-7	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
Acenaphthene	83-32-9	0.0609	JD	0.0501	U	0.0773	JD	5.100	U	0.543	D	0.169	D	0.0432	U	0.0432	U	100	500	1000	98	100	20
Acenaphthylene	208-96-8	0.0711	JD	0.0501	U	0.0471	U	5.100	U	0.117	D	0.143	D	0.0432	U	0.0432	U	100	500	1000	107	100	100
Acetophenone	98-86-2	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Aniline	62-53-3	0.198	U	0.200	U	0.188	U	20.400	U	0.203	U	0.196	U	0.172	U	0.172	U	~	~	~	~	~	~
Anthracene	120-12-7	0.281	D	0.0501	U	0.217	D	5.100	U	1.520	D	0.540	D	0.0432	U	0.0432	U	100	500	1000	1000	100	100
Atrazine	1912-24-9	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Benzaldehyde	100-52-7	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Benzidine	92-87-5	0.198	U	0.200	U	0.188	U	20.400	U	0.203	U	0.196	U	0.172	U	0.172	U	~	~	~	~	~	~
Benzo(a)anthracene	56-55-3	**1.500**	D	0.201	D	0.756	D	**5.100**	U	**4.590**	D	**3.020**	D	0.142	D	0.0432	U	1	5.6	11	1	1	1
Benzo(a)pyrene	50-32-8	**1.480**	D	0.421	D	0.702	D	**5.100**	U	**4.570**	D	**8.570**	D	0.147	D	0.0432	U	1	1	1.1	22	1	1
Benzo(b)fluoranthene	205-99-2	**1.300**	D	0.344	D	0.609	D	**5.100**	U	**3.180**	D	**5.230**	D	0.128	D	0.0432	U	1	5.6	11	1.7	1	1
Benzo(g,h,i)perylene	191-24-2	0.819	D	0.349	D	0.408	D	5.100	U	2.170	D	7.370	D	0.0943	D	0.0432	U	100	500	1000	1000	100	100
Benzo(k)fluoranthene	207-08-9	**1.020**	D	0.247	D	0.512	D	**5.100**	U	**3.010**	D	**4.270**	D	0.0957	D	0.0432	U	3.9	56	110	1.7	1	0.8
Benzoic acid	65-85-0	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Benzyl alcohol	100-51-6	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Benzyl butyl phthalate	85-68-7	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Bis(2-chloroethoxy)methane	111-91-1	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~

Table 2 (cont.)
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		SB1 0-2'		SB1 10'		SB2 0-2'		SB2 10'		SB3 0-2'		SB3 10'		SB4 0-2'		SB4 10'		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
York ID		19C0312-01		19C0312-02		19C0312-03		19C0312-04		19C0312-05		19C0312-06		19C0312-07		19C0312-08							
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019							
Client Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil							
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q						
Bis(2-chloroethyl)ether	111-44-4	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Bis(2-chloroisopropyl)ether	108-60-1	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Bis(2-ethylhexyl)phthalate	117-81-7	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Caprolactam	105-60-2	0.0989	U	0.100	U	0.0939	U	10.200	U	0.101	U	0.0981	U	0.0861	U	0.0861	U	~	~	~	~	~	~
Carbazole	86-74-8	0.0672	JD	0.0501	U	0.0555	JD	5.100	U	0.327	D	0.212	D	0.0432	U	0.0432	U	~	~	~	~	~	~
Chrysene	218-01-9	**1.280**	D	0.225	D	0.671	D	**5.100**	U	**4.040**	D	**2.670**	D	0.120	D	0.0432	U	3.9	56	110	1	1	1
Dibenzo(a,h)anthracene	53-70-3	0.251	D	0.105	D	0.132	D	**5.100**	U	**0.736**	D	**1.500**	D	0.0432	U	0.0432	U	0.33	0.56	1.1	1000	0.33	0.33
Dibenzofuran	132-64-9	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.148	D	0.172	D	0.0432	U	0.0432	U	59	350	1000	210	14	7
Diethyl phthalate	84-66-2	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Dimethyl phthalate	131-11-3	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Di-n-butyl phthalate	84-74-2	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Di-n-octyl phthalate	117-84-0	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Fluoranthene	206-44-0	2.850	D	0.242	D	1.500	D	5.610	JD	8.850	D	3.880	D	0.192	D	0.0432	U	100	500	1000	1000	100	100
Fluorene	86-73-7	0.0545	JD	0.0501	U	0.0713	JD	5.100	U	0.501	D	0.173	D	0.0432	U	0.0432	U	100	500	1000	386	100	30
Hexachlorobenzene	118-74-1	0.0495	U	0.0501	U	0.0471	U	**5.100**	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	1.2	6	12	3.2	0.33	0.33
Hexachlorobutadiene	87-68-3	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Hexachlorocyclopentadiene	77-47-4	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Hexachloroethane	67-72-1	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Indeno(1,2,3-cd)pyrene	193-39-5	**0.974**	D	0.390	D	0.449	D	**5.100**	U	**2.600**	D	**7.570**	D	0.103	D	0.0432	U	0.5	5.6	11	8.2	0.5	0.5
Isophorone	78-59-1	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Naphthalene	91-20-3	0.0495	U	0.0501	U	0.0471	U	**26.300**	D	0.0508	U	1.010	D	0.0432	U	0.393	D	100	500	1000	12	100	12
Nitrobenzene	98-95-3	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
N-Nitrosodimethylamine	62-75-9	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
N-nitroso-di-n-propylamine	621-64-7	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
N-Nitrosodiphenylamine	86-30-6	0.0495	U	0.0501	U	0.0471	U	5.100	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	~	~	~	~	~	~
Pentachlorophenol	87-86-5	0.0495	U	0.0501	U	0.0471	U	**5.100**	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	6.7	6.7	55	0.8	2.4	0.8
Phenanthrene	85-01-8	1.100	D	0.109	D	0.898	D	6.920	JD	5.920	D	1.800	D	0.0599	JD	0.0432	U	100	500	1000	1000	100	100
Phenol	108-95-2	0.0495	U	0.0501	U	0.0471	U	**5.100**	U	0.0508	U	0.0492	U	0.0432	U	0.0432	U	100	500	1000	0.33	100	0.33
Pyrene	129-00-0	2.520	D	0.245	D	1.290	D	8.790	JD	9.010	D	4.040	D	0.183	D	0.0432	U	100	500	1000	1000	100	100
Pesticides, EPA TCL List		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		2		2		2		2		2		2		2		2							
4,4'-DDD	72-54-8	0.00078	U	0.00079	U	**0.00891**	D	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	13	92	180	14	2.6	0.0033
4,4'-DDE	72-55-9	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	8.9	62	120	17	1.8	0.0033
4,4'-DDT	50-29-3	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00185	D	0.00069	U	7.9	47	94	136	1.7	0.0033
Aldrin	309-00-2	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	0.097	0.68	1.4	0.19	0.019	0.005
alpha-BHC	319-84-6	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	0.48	3.4	6.8	0.02	0.097	0.02
beta-BHC	319-85-7	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	0.36	3	14	0.09	0.072	0.036
Chlordane, total	57-74-9	0.00156	U	0.00158	U	0.00149	U	0.00321	U	0.00158	U	0.00157	U	0.00137	U	0.00137	U	~	~	~	~	~	~
delta-BHC	319-86-8	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	100	500	1000	0.25	100	0.04
Dieldrin	60-57-1	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	0.2	1.4	2.8	0.1	0.039	0.005

Table 2 (cont.)
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		SB1 0-2'		SB1 10'		SB2 0-2'		SB2 10'		SB3 0-2'		SB3 10'		SB4 0-2'		SB4 10'		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
York ID		19C0312-01		19C0312-02		19C0312-03		19C0312-04		19C0312-05		19C0312-06		19C0312-07		19C0312-08							
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019							
Client Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil							
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q						
Endosulfan I	959-98-8	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	24	200	920	102	4.8	2.4
Endosulfan II	33213-65-9	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	24	200	920	102	4.8	2.4
Endosulfan sulfate	1031-07-8	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	24	200	920	1000	4.8	2.4
Endrin	72-20-8	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	11	89	410	0.06	2.2	0.014
Endrin aldehyde	7421-93-4	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	~	~	~	~	~	~
Endrin ketone	53494-70-5	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	~	~	~	~	~	~
gamma-BHC (Lindane)	58-89-9	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	1.3	9.2	23	0.1	0.28	0.1
Heptachlor	76-44-8	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	2.1	15	29	0.38	0.42	0.042
Heptachlor epoxide	1024-57-3	0.00078	U	0.00079	U	0.00074	U	0.00160	U	0.00079	U	0.00078	U	0.00069	U	0.00069	U	~	~	~	~	~	~
Methoxychlor	72-43-5	0.00391	U	0.00396	U	0.00371	U	0.00802	U	0.00396	U	0.00392	U	0.00343	U	0.00343	U	~	~	~	~	~	~
Toxaphene	8001-35-2	0.0396	U	0.0400	U	0.0376	U	0.0811	U	0.0401	U	0.0397	U	0.0347	U	0.0347	U	~	~	~	~	~	~
Metals, Target Analyte		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1		1		1		1		1		1		1		1							
Aluminum	7429-90-5	8,550		9,270		4,670		8,690		8,820		7,930		8,070		4,380		~	~	~	~	~	~
Antimony	7440-36-0	2.980	U	3.020	U	2.840	U	5.420		3.050	U	2.980	U	2.610	U	2.620	U	~	~	~	~	~	~
Arsenic	7440-38-2	6.190		10		5.300		**35.800**		2.610		4.770		6.150		10.200		16	16	16	16	16	13
Barium	7440-39-3	196		141		68.300		**1,110**		86.200		87.200		104		66.500		400	400	10000	820	350	350
Beryllium	7440-41-7	0.0600	U	0.0600	U	0.0570	U	0.0820	U	0.0610	U	0.0600	U	0.0520	U	0.227		72	590	2700	47	14	7.2
Cadmium	7440-43-9	1.980		0.628		0.777		**16.500**		0.366	U	0.914		0.399		0.314	U	4.3	9.3	60	7.5	2.5	2.5
Calcium	7440-70-2	9,120		8,790		50,000		17,900		6,480		7,780		103,000		158,000		~	~	~	~	~	~
Chromium	7440-47-3	25.200		17.100		9.400		54.200		13.600		19.800		19.500		7.270		~	~	~	~	~	~
Cobalt	7440-48-4	9.880		10.800		4.880		8.900		6.830		9.460		8.680		5.210		~	~	~	~	~	~
Copper	7440-50-8	**81.400**		**77.600**		31.500		**267**		35		**209**		29.300		15.100		270	270	10000	1720	270	50
Iron	7439-89-6	19,300		24,000		11,000		30,400		14,000		16,700		16,600		11,600		~	~	~	~	~	~
Lead	7439-92-1	**410**		**566**		**112**		**10,700**		**238**		**173**		18.200		11.200		400	1000	3900	450	400	63
Magnesium	7439-95-4	3,930		5,330		13,000		2,470		3,660		3,310		8,770		11,500		~	~	~	~	~	~
Manganese	7439-96-5	268		265		166		223		117		348		200		179		2000	10000	10000	2000	2000	1600
Nickel	7440-02-0	25.100		19.700		11.900		**62.500**		14		28.300		18.700		12.900		310	310	10000	130	140	30
Potassium	7440-09-7	2,030		2,810		803		1,460		1,000		2,500		3,560		1,250		~	~	~	~	~	~
Selenium	7782-49-2	2.980	U	3.020	U	**5.240**		**4.110**	U	3.050	U	2.980	U	2.610	U	2.620	U	180	1500	6800	4	36	3.9
Silver	7440-22-4	0.597	U	0.603	U	0.568	U	0.822	U	0.610	U	0.596	U	0.521	U	0.523	U	180	1500	6800	8.3	36	2
Sodium	7440-23-5	524		274		202		1,690		214		179		512		387		~	~	~	~	~	~
Thallium	7440-28-0	2.980	U	3.020	U	2.840	U	4.110	U	3.050	U	2.980	U	2.610	U	2.620	U	~	~	~	~	~	~
Vanadium	7440-62-2	40.300		34.100		24.400		45.700		18.800		25.400		28.100		11.100		~	~	~	~	~	~
Zinc	7440-66-6	**654**		**204**		103		**2,090**		107		**283**		51.500		**122**		10000	10000	10000	2480	2200	109
Mercury by 7473		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1		1		1		1		1		1		1		1							
Mercury	7439-97-6	**1.070**		**1.950**		0.0898		**0.716**		**1.540**		**2.250**		0.0313	U	0.0314	U	0.81	2.8	5.7	0.73	0.81	0.18
Total Solids		%		%		%		%		%		%		%		%							
Dilution Factor		1		1		1		1		1		1		1		1							

Table 2 (cont.)
Soil Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		SB1 0-2'		SB1 10'		SB2 0-2'		SB2 10'		SB3 0-2'		SB3 10'		SB4 0-2'		SB4 10'		NYSDEC Part 375 Restricted Use Soil Cleanup Objectives -Restricted Residential	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Commercial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Industrial	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Protection of GW	NYSDEC Part 375 Restricted Use Soil Cleanup Objectives-Residential	NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
York ID		19C0312-01		19C0312-02		19C0312-03		19C0312-04		19C0312-05		19C0312-06		19C0312-07		19C0312-08							
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019		3/7/2019							
Client Matrix		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil							
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q						
% Solids	solids	83.800		82.900		88		60.800		82		83.900		95.900		95.600		~	~	~	~	~	~
Polychlorinated Biphenyls (PCB)		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor		1		1		1		1		1		1		1		1							
Aroclor 1016	12674-11-2	0.0197	U	0.0200	U	0.0188	U	0.0405	U	0.0200	U	0.0198	U	0.0173	U	0.0173	U	~	~	~	~	~	~
Aroclor 1221	11104-28-2	0.0197	U	0.0200	U	0.0188	U	0.0405	U	0.0200	U	0.0198	U	0.0173	U	0.0173	U	~	~	~	~	~	~
Aroclor 1232	11141-16-5	0.0197	U	0.0200	U	0.0188	U	0.0405	U	0.0200	U	0.0198	U	0.0173	U	0.0173	U	~	~	~	~	~	~
Aroclor 1242	53469-21-9	0.0197	U	0.0200	U	0.0188	U	3.100		0.0200	U	0.0198	U	0.0173	U	0.0173	U	~	~	~	~	~	~
Aroclor 1248	12672-29-6	0.0197	U	0.0200	U	0.0188	U	2.920		0.0200	U	0.0198	U	0.0173	U	0.0173	U	~	~	~	~	~	~
Aroclor 1254	11097-69-1	0.0197	U	0.0200	U	0.0188	U	1.510		0.0200	U	0.0198	U	0.0173	U	0.0173	U	~	~	~	~	~	~
Aroclor 1260	11096-82-5	0.0197	U	0.0200	U	0.0342		0.934		0.0200	U	0.0198	U	0.0173	U	0.0173	U	~	~	~	~	~	~
Total PCBs	1336-36-3	0.0197	U	0.0200	U	0.0342		**8.460**		0.0200	U	0.0198	U	0.0173	U	0.0173	U	1	1	25	3.2	1	0.1

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 3
Groundwater Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		MW1		MW2		MW3		MW4		NYSDEC TOGS Standards and Guidance Values - GA
York ID		19C0297-01		19C0297-02		19C0296-01		19C0296-02		
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		
Client Matrix		Water		Water		Water		Water		
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	
Volatile Organics, 8260 - Comprehensive		ug/L		ug/L		ug/L		ug/L		ug/L
Dilution Factor		5		5		5		5		
1,1,1,2-Tetrachloroethane	630-20-6	0.400	U	0.400	U	0.200	U	0.200	U	5
1,1,1-Trichloroethane	71-55-6	0.400	U	0.400	U	0.200	U	0.200	U	5
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	0.400	U	0.200	U	0.200	U	5
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	0.400	U	0.400	U	0.200	U	0.200	U	5
1,1,2-Trichloroethane	79-00-5	0.400	U	0.400	U	0.200	U	0.200	U	1
1,1-Dichloroethane	75-34-3	0.400	U	0.400	U	0.200	U	0.200	U	5
1,1-Dichloroethylene	75-35-4	0.400	U	0.400	U	0.200	U	0.200	U	5
1,2,3-Trichlorobenzene	87-61-6	0.400	U	0.400	U	0.200	U	0.200	U	5
1,2,3-Trichloropropane	96-18-4	**0.400**	U	**0.400**	U	**0.200**	U	**0.200**	U	0.04
1,2,4-Trichlorobenzene	120-82-1	0.400	U	0.400	U	0.200	U	0.200	U	5
1,2,4-Trimethylbenzene	95-63-6	**110**	D	**21**	D	**7**		**150**		5
1,2-Dibromo-3-chloropropane	96-12-8	**0.400**	U	**0.400**	U	**0.200**	U	**0.200**	U	0.04
1,2-Dibromoethane	106-93-4	**0.400**	U	**0.400**	U	**0.200**	U	**0.200**	U	0.0006
1,2-Dichlorobenzene	95-50-1	0.400	U	0.400	U	0.200	U	0.200	U	3
1,2-Dichloroethane	107-06-2	0.400	U	0.400	U	0.200	U	0.200	U	0.6
1,2-Dichloropropane	78-87-5	0.400	U	0.400	U	0.200	U	0.200	U	1
1,3,5-Trimethylbenzene	108-67-8	**54**	D	**9.900**	D	**45**		**41**		5
1,3-Dichlorobenzene	541-73-1	0.400	U	0.400	U	0.200	U	0.200	U	3
1,4-Dichlorobenzene	106-46-7	0.400	U	0.400	U	0.200	U	0.200	U	3
1,4-Dioxane	123-91-1	80	U	80	U	40	U	40	U	~
2-Butanone	78-93-3	10	D	43	D	11		0.200	U	50
2-Hexanone	591-78-6	0.400	U	0.400	U	0.200	U	0.200	U	50
4-Methyl-2-pentanone	108-10-1	0.400	U	0.400	U	0.200	U	0.200	U	~
Acetone	67-64-1	14	D	**55**	D	15		2	J	50
Acrolein	107-02-8	0.400	U	0.400	U	0.200	U	0.200	U	~
Acrylonitrile	107-13-1	0.400	U	0.400	U	0.200	U	0.200	U	~
Benzene	71-43-2	**54**	D	**86**	D	0.200	U	**3**		1
Bromochloromethane	74-97-5	0.400	U	0.400	U	0.200	U	0.200	U	5
Bromodichloromethane	75-27-4	0.400	U	0.400	U	0.200	U	0.200	U	50
Bromoform	75-25-2	0.400	U	0.400	U	0.200	U	0.200	U	50
Bromomethane	74-83-9	0.400	U	0.400	U	0.200	U	0.200	U	5
Carbon disulfide	75-15-0	0.700	JD	1.500	D	0.640		0.200	U	~
Carbon tetrachloride	56-23-5	0.400	U	0.400	U	0.200	U	0.200	U	5
Chlorobenzene	108-90-7	0.400	U	0.740	JD	0.200	U	0.200	U	5
Chloroethane	75-00-3	0.400	U	0.400	U	0.200	U	0.200	U	5
Chloroform	67-66-3	0.400	U	0.400	U	0.200	U	**14**		7
Chloromethane	74-87-3	0.400	U	0.400	U	0.200	U	0.200	U	5
cis-1,2-Dichloroethylene	156-59-2	0.400	U	0.400	U	0.200	U	0.200	U	5

Table 3 (cont.)
Groundwater Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		MW1		MW2		MW3		MW4		NYSDEC TOGS Standards and Guidance Values - GA
York ID		19C0297-01		19C0297-02		19C0296-01		19C0296-02		
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		
Client Matrix		Water		Water		Water		Water		
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	
cis-1,3-Dichloropropylene	10061-01-5	0.400	U	0.400	U	0.200	U	0.200	U	0.4
Cyclohexane	110-82-7	200	DE	280	DE	180	D	0.200	U	~
Dibromochloromethane	124-48-1	0.400	U	0.400	U	0.200	U	0.200	U	50
Dibromomethane	74-95-3	0.400	U	0.400	U	0.200	U	0.200	U	~
Dichlorodifluoromethane	75-71-8	0.400	U	0.400	U	0.200	U	0.200	U	5
Ethyl Benzene	100-41-4	**61**	D	**50**	D	**51**		**60**		5
Hexachlorobutadiene	87-68-3	0.400	U	0.400	U	0.200	U	0.200	U	0.5
Isopropylbenzene	98-82-8	**37**	D	**53**	D	**19**		**92**		5
Methyl acetate	79-20-9	0.400	U	0.400	U	0.200	U	0.200	U	~
Methyl tert-butyl ether (MTBE)	1634-04-4	0.400	U	0.400	U	0.200	U	0.200	U	10
Methylcyclohexane	108-87-2	400	D	460	D	240	D	120		~
Methylene chloride	75-09-2	2	U	2	U	1	U	1.900	J	5
n-Butylbenzene	104-51-8	**17**	D	**30**	D	**11**		**43**		5
n-Propylbenzene	103-65-1	**81**	D	**120**	D	**50**		**290**	D	5
o-Xylene	95-47-6	**12**	D	**9**	D	**5.900**		4.600		5
p- & m- Xylenes	179601-23-1	**54**	D	**35**	D	**20**		**84**		5
p-Isopropyltoluene	99-87-6	**8.800**	D	**8.300**	D	**5.800**		3.400		5
sec-Butylbenzene	135-98-8	**8.600**	D	**12**	D	**5.700**		**38**		5
Styrene	100-42-5	0.400	U	0.400	U	0.200	U	0.200	U	5
tert-Butyl alcohol (TBA)	75-65-0	1	U	1	U	0.500	U	0.500	U	~
tert-Butylbenzene	98-06-6	1.200	D	1.400	D	0.520		0.200	U	5
Tetrachloroethylene	127-18-4	0.400	U	0.400	U	0.200	U	0.200	U	5
Toluene	108-88-3	**14**	D	**18**	D	**6.300**		3.900		5
trans-1,2-Dichloroethylene	156-60-5	0.400	U	0.400	U	0.200	U	0.200	U	5
trans-1,3-Dichloropropylene	10061-02-6	0.400	U	0.400	U	0.200	U	0.200	U	0.4
trans-1,4-dichloro-2-butene	110-57-6	0.400	U	0.400	U	0.200	U	0.200	U	~
Trichloroethylene	79-01-6	0.400	U	0.400	U	0.200	U	0.200	U	5
Trichlorofluoromethane	75-69-4	0.400	U	0.400	U	0.200	U	0.200	U	5
Vinyl Chloride	75-01-4	0.400	U	0.400	U	0.200	U	0.200	U	2
Xylenes, Total	1330-20-7	**66**	D	**44**	D	**26**		**89**		5
Semi-Volatiles, 8270 - Comprehensive		ug/L		ug/L		ug/L		ug/L		ug/L
Dilution Factor		2		5		1		2		
1,1-Biphenyl	92-52-4	2.500	U	2.500	U	2.560	U	2.630	U	~
1,2,4,5-Tetrachlorobenzene	95-94-3	2.500	U	2.500	U	2.560	U	2.630	U	~
1,2,4-Trichlorobenzene	120-82-1	2.500	U	2.500	U	2.560	U	2.630	U	5
1,2-Dichlorobenzene	95-50-1	2.500	U	2.500	U	2.560	U	2.630	U	3
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	2.500	U	2.500	U	2.560	U	2.630	U	~
1,3-Dichlorobenzene	541-73-1	2.500	U	2.500	U	2.560	U	2.630	U	3
1,4-Dichlorobenzene	106-46-7	2.500	U	2.500	U	2.560	U	2.630	U	3
2,3,4,6-Tetrachlorophenol	58-90-2	2.500	U	2.500	U	2.560	U	2.630	U	~

Table 3 (cont.)
Groundwater Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		MW1		MW2		MW3		MW4		NYSDEC TOGS Standards and Guidance Values - GA
York ID		19C0297-01		19C0297-02		19C0296-01		19C0296-02		
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		
Client Matrix		Water		Water		Water		Water		
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	
2,4,5-Trichlorophenol	95-95-4	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
2,4,6-Trichlorophenol	88-06-2	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
2,4-Dichlorophenol	120-83-2	2.500	U	2.500	U	2.560	U	2.630	U	5
2,4-Dimethylphenol	105-67-9	2.500	U	2.500	U	2.560	U	2.630	U	50
2,4-Dinitrophenol	51-28-5	2.500	U	2.500	U	2.560	U	2.630	U	10
2,4-Dinitrotoluene	121-14-2	2.500	U	2.500	U	2.560	U	2.630	U	5
2,6-Dinitrotoluene	606-20-2	2.500	U	2.500	U	2.560	U	2.630	U	5
2-Chloronaphthalene	91-58-7	2.500	U	2.500	U	2.560	U	2.630	U	10
2-Chlorophenol	95-57-8	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
2-Methylnaphthalene	91-57-6	23		52.800	D	16.600		10.800		~
2-Methylphenol	95-48-7	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
2-Nitroaniline	88-74-4	2.500	U	2.500	U	2.560	U	2.630	U	5
2-Nitrophenol	88-75-5	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
3- & 4-Methylphenols	65794-96-9	2.500	U	2.500	U	2.560	U	2.630	U	~
3,3-Dichlorobenzidine	91-94-1	2.500	U	2.500	U	2.560	U	2.630	U	5
3-Nitroaniline	99-09-2	2.500	U	2.500	U	2.560	U	2.630	U	5
4,6-Dinitro-2-methylphenol	534-52-1	2.500	U	2.500	U	2.560	U	2.630	U	~
4-Bromophenyl phenyl ether	101-55-3	2.500	U	2.500	U	2.560	U	2.630	U	~
4-Chloro-3-methylphenol	59-50-7	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
4-Chloroaniline	106-47-8	2.500	U	2.500	U	2.560	U	2.630	U	5
4-Chlorophenyl phenyl ether	7005-72-3	2.500	U	2.500	U	2.560	U	2.630	U	~
4-Nitroaniline	100-01-6	2.500	U	2.500	U	2.560	U	2.630	U	5
4-Nitrophenol	100-02-7	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
Acenaphthene	83-32-9	2.500	U	2.500	U	2.780	J	2.630	U	20
Acenaphthylene	208-96-8	2.500	U	2.500	U	0.513	J	2.630	U	~
Acetophenone	98-86-2	2.500	U	2.500	U	2.560	U	2.630	U	~
Aniline	62-53-3	2.500	U	2.500	U	2.560	U	2.630	U	5
Anthracene	120-12-7	2.500	U	2.500	U	1.710	J	2.630	U	50
Atrazine	1912-24-9	2.500	U	2.500	U	0.513	U	2.630	U	~
Benzaldehyde	100-52-7	2.500	U	2.500	U	2.560	U	2.630	U	~
Benzidine	92-87-5	10	U	10	U	10.300	U	10.500	U	~
Benzo(a)anthracene	56-55-3	**2.500**	U	**2.500**	U	**3.250**	J	**2.630**	U	0.002
Benzo(a)pyrene	50-32-8	**2.500**	U	**2.500**	U	**4.390**	J	**2.630**	U	0.002
Benzo(b)fluoranthene	205-99-2	**2.500**	U	**2.500**	U	**4.230**	J	**2.630**	U	0.002
Benzo(g,h,i)perylene	191-24-2	2.500	U	2.500	U	3.460	J	2.630	U	~
Benzo(k)fluoranthene	207-08-9	**2.500**	U	**2.500**	U	**3.330**	J	**2.630**	U	0.002
Benzoic acid	65-85-0	25	U	25	U	25.600	U	26.300	U	~
Benzyl alcohol	100-51-6	2.500	U	2.500	U	2.560	U	2.630	U	~
Benzyl butyl phthalate	85-68-7	2.500	U	2.500	U	2.560	U	2.630	U	50
Bis(2-chloroethoxy)methane	111-91-1	2.500	U	2.500	U	2.560	U	2.630	U	5

Table 3 (cont.)
Groundwater Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		MW1		MW2		MW3		MW4		NYSDEC TOGS Standards and Guidance Values - GA
York ID		19C0297-01		19C0297-02		19C0296-01		19C0296-02		
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		
Client Matrix		Water		Water		Water		Water		
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	
Bis(2-chloroethyl)ether	111-44-4	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
Bis(2-chloroisopropyl)ether	108-60-1	2.500	U	2.500	U	2.560	U	2.630	U	5
Bis(2-ethylhexyl)phthalate	117-81-7	2.500	U	2.500	U	0.513	J	2.630	U	5
Caprolactam	105-60-2	2.500	U	2.500	U	2.560	U	2.630	U	~
Carbazole	86-74-8	2.500	U	2.500	U	2.560	U	2.630	U	~
Chrysene	218-01-9	**2.500**	U	**2.500**	U	**3.200**	J	**2.630**	U	0.002
Dibenzo(a,h)anthracene	53-70-3	2.500	U	2.500	U	0.349	J	2.630	U	~
Dibenzofuran	132-64-9	2.500	U	2.500	U	2.560	U	2.630	U	~
Diethyl phthalate	84-66-2	2.500	U	2.500	U	2.560	U	2.630	U	50
Dimethyl phthalate	131-11-3	2.500	U	2.500	U	2.560	U	2.630	U	50
Di-n-butyl phthalate	84-74-2	2.500	U	2.500	U	2.560	U	2.630	U	50
Di-n-octyl phthalate	117-84-0	2.500	U	2.500	U	2.560	U	2.630	U	50
Fluoranthene	206-44-0	2.660	J	3.750	J	7.900		2.630	U	50
Fluorene	86-73-7	2.500	U	2.500	U	2.880	J	2.630	U	50
Hexachlorobenzene	118-74-1	**2.500**	U	**2.500**	U	0.0205	U	**2.630**	U	0.04
Hexachlorobutadiene	87-68-3	**2.500**	U	**2.500**	U	**0.513**	U	**2.630**	U	0.5
Hexachlorocyclopentadiene	77-47-4	2.500	U	2.500	U	2.560	U	2.630	U	5
Hexachloroethane	67-72-1	2.500	U	2.500	U	0.513	U	2.630	U	5
Indeno(1,2,3-cd)pyrene	193-39-5	**2.500**	U	**2.500**	U	**3.440**	J	**2.630**	U	0.002
Isophorone	78-59-1	2.500	U	2.500	U	2.560	U	2.630	U	50
Naphthalene	91-20-3	**51.100**	D	**114**	D	**22.600**		**65.700**	D	10
Nitrobenzene	98-95-3	**2.500**	U	**2.500**	U	0.256	U	**2.630**	U	0.4
N-Nitrosodimethylamine	62-75-9	2.500	U	2.500	U	0.513	U	2.630	U	~
N-nitroso-di-n-propylamine	621-64-7	2.500	U	2.500	U	2.560	U	2.630	U	~
N-Nitrosodiphenylamine	86-30-6	2.500	U	2.500	U	2.560	U	2.630	U	50
Pentachlorophenol	87-86-5	**2.500**	U	**2.500**	U	0.256	U	**2.630**	U	1
Phenanthrene	85-01-8	4.060	J	3.320	J	9.860		2.630	U	50
Phenol	108-95-2	**2.500**	U	**2.500**	U	**2.560**	U	**2.630**	U	1
Pyrene	129-00-0	3.060	J	3.730	J	7.200		2.630	U	50
Pesticides, 8081 target list		ug/L		ug/L		ug/L		ug/L		ug/L
Dilution Factor		1		1		1		1		
4,4'-DDD	72-54-8	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.3
4,4'-DDE	72-55-9	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.2
4,4'-DDT	50-29-3	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.2
Aldrin	309-00-2	0.00410	U	0.00410	U	0.00410	U	0.00410	U	~
alpha-BHC	319-84-6	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.01
alpha-Chlordane	5103-71-9	0.00410	U	0.00410	U	0.00410	U	0.00410	U	~
beta-BHC	319-85-7	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.04
Chlordane, total	57-74-9	0.0205	U	0.0205	U	0.0205	U	0.0205	U	0.05
delta-BHC	319-86-8	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.04

Table 3 (cont.)
Groundwater Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		MW1		MW2		MW3		MW4		NYSDEC TOGS Standards and Guidance Values - GA
York ID		19C0297-01		19C0297-02		19C0296-01		19C0296-02		
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		
Client Matrix		Water		Water		Water		Water		
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	
Dieldrin	60-57-1	0.00205	U	0.00205	U	0.00205	U	0.00205	U	0.004
Endosulfan I	959-98-8	0.00410	U	0.00410	U	0.00410	U	0.00410	U	~
Endosulfan II	33213-65-9	0.00410	U	0.00410	U	0.00410	U	0.00410	U	~
Endosulfan sulfate	1031-07-8	0.00410	U	0.00410	U	0.00410	U	0.00410	U	~
Endrin	72-20-8	0.00410	U	0.00410	U	0.00410	U	0.00410	U	~
Endrin aldehyde	7421-93-4	0.0103	U	0.0103	U	0.0103	U	0.0103	U	5
Endrin ketone	53494-70-5	0.0103	U	0.0103	U	0.0103	U	0.0103	U	5
gamma-BHC (Lindane)	58-89-9	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.05
gamma-Chlordane	5566-34-7	0.0103	U	0.0103	U	0.0103	U	0.0103	U	~
Heptachlor	76-44-8	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.04
Heptachlor epoxide	1024-57-3	0.00410	U	0.00410	U	0.00410	U	0.00410	U	0.03
Methoxychlor	72-43-5	0.00410	U	0.00410	U	0.00410	U	0.00410	U	35
Toxaphene	8001-35-2	**0.103**	U	**0.103**	U	**0.103**	U	**0.103**	U	0.06
Metals, Target Analyte		ug/L		ug/L		ug/L		ug/L		ug/L
Dilution Factor		10		10		1		1		
Aluminum	7429-90-5	33,600		54,100		7,610		2,600		~
Antimony	7440-36-0	**28**	U	**28**	U	**28**	U	**28**	U	3
Arsenic	7440-38-2	17	U	**64**		17	U	17	U	25
Barium	7440-39-3	934		**1,260**		274		59		1000
Beryllium	7440-41-7	3		3		0.600	U	0.600	U	3
Cadmium	7440-43-9	3	U	3	U	**18**		3	U	5
Calcium	7440-70-2	247,000		618,000		135,000		44,800		~
Chromium	7440-47-3	**100**		**352**		23		7		50
Cobalt	7440-48-4	36		56		7		4	U	~
Copper	7440-50-8	58		191		**860**		22	U	200
Iron	7439-89-6	117,000	D	173,000	D	19,000		4,130		~
Lead	7439-92-1	**912**		**2,190**		**541**		**55**		25
Magnesium	7439-95-4	34,400		**59,600**		15,800		9,040		35000
Manganese	7439-96-5	**3,430**		**4,440**		**905**		187		300
Nickel	7440-02-0	73		**148**		23		11	U	100
Potassium	7440-09-7	13,400		15,900		14,400		4,970		~
Selenium	7782-49-2	**28**	U	**28**	U	**28**	U	**28**	U	10
Silver	7440-22-4	6	U	6	U	6	U	6	U	50
Sodium	7440-23-5	**49,700**		**37,400**		**53,300**		**47,500**		20000
Thallium	7440-28-0	28	U	28	U	28	U	28	U	~
Vanadium	7440-62-2	188		233		27		11	U	~
Zinc	7440-66-6	1,840		**4,120**		**4,510**		38		2000
Mercury by 7473		ug/L		ug/L		ug/L		ug/L		ug/L
Dilution Factor		1		1		1		1		
Mercury	7439-97-6	0.200	U	0.200	U	0.200	U	0.200	U	0.7

Table 3 (cont.)
Groundwater Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		MW1		MW2		MW3		MW4		NYSDEC TOGS Standards and Guidance Values - GA
York ID		19C0297-01		19C0297-02		19C0296-01		19C0296-02		
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019		
Client Matrix		Water		Water		Water		Water		
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q	
Polychlorinated Biphenyls (PCB)		ug/L		ug/L		ug/L		ug/L		ug/L
Dilution Factor		1		1		1		1		
Aroclor 1016	12674-11-2	0.0513	U	0.0513	U	0.0513	U	0.0513	U	~
Aroclor 1221	11104-28-2	0.0513	U	0.0513	U	0.0513	U	0.0513	U	~
Aroclor 1232	11141-16-5	0.0513	U	0.0513	U	0.0513	U	0.0513	U	~
Aroclor 1242	53469-21-9	0.0513	U	0.0513	U	0.0513	U	0.0513	U	~
Aroclor 1248	12672-29-6	0.0513	U	0.0513	U	0.0513	U	0.0513	U	~
Aroclor 1254	11097-69-1	0.0513	U	0.0513	U	0.0513	U	0.0513	U	~
Aroclor 1260	11096-82-5	0.0513	U	0.0513	U	0.0513	U	0.0513	U	~
Total PCBs	1336-36-3	0.0513	U	0.0513	U	0.0513	U	0.0513	U	0.09

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 4
Soil Vapor Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		VP-1		VP-2		VP-3		VP-4	
York ID		19C0284-01		19C0284-02		19C0284-03		19C0284-04	
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019	
Client Matrix		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, EPA TO15 Full List		ug/m3		ug/m3		ug/m3		ug/m3	
Dilution Factor		13.4		13.4		13.58		13.67	
1,1,1,2-Tetrachloroethane	630-20-6	9.200	U	9.200	U	9.300	U	9.400	U
1,1,1-Trichloroethane	71-55-6	**7.300**	U	**7.300**	U	**7.400**	U	**7.500**	U
1,1,2,2-Tetrachloroethane	79-34-5	**9.200**	U	**9.200**	U	**9.300**	U	**9.400**	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	**10**	U	**10**	U	**10**	U	**10**	U
1,1,2-Trichloroethane	79-00-5	**7.300**	U	**7.300**	U	**7.400**	U	**7.500**	U
1,1-Dichloroethane	75-34-3	**5.400**	U	**5.400**	U	**5.500**	U	**5.500**	U
1,1-Dichloroethylene	75-35-4	**1.300**	U	**1.300**	U	**1.300**	U	**1.400**	U
1,2,4-Trichlorobenzene	120-82-1	**9.900**	U	**9.900**	U	**10**	U	**10**	U
1,2,4-Trimethylbenzene	95-63-6	**6.600**	U	**6.600**	U	**6.700**	U	**6.700**	U
1,2-Dibromoethane	106-93-4	**10**	U	**10**	U	**10**	U	**11**	U
1,2-Dichlorobenzene	95-50-1	**8.100**	U	**8.100**	U	**8.200**	U	**8.200**	U
1,2-Dichloroethane	107-06-2	**5.400**	U	**5.400**	U	**5.500**	U	**5.500**	U
1,2-Dichloropropane	78-87-5	**6.200**	U	**6.200**	U	**6.300**	U	**6.300**	U
1,2-Dichlorotetrafluoroethane	76-14-2	**9.400**	U	**9.400**	U	**9.500**	U	**9.600**	U
1,3,5-Trimethylbenzene	108-67-8	**6.600**	U	**6.600**	U	**6.700**	U	**6.700**	U
1,3-Butadiene	106-99-0	8.900	U	8.900	U	9	U	12	U
1,3-Dichlorobenzene	541-73-1	**8.100**	U	**8.100**	U	**8.200**	U	**8.200**	D
1,3-Dichloropropane	142-28-9	6.200	U	6.200	U	6.300	U	6.300	U
1,4-Dichlorobenzene	106-46-7	**8.100**	U	**8.100**	U	**8.200**	U	**8.200**	U
1,4-Dioxane	123-91-1	9.700	U	9.700	U	9.800	U	9.900	U
2-Butanone	78-93-3	**28**	D	**11**	D	**19**	D	**31**	U
2-Hexanone	591-78-6	11	U	11	U	11	U	11	D
3-Chloropropene	107-05-1	21	U	21	U	21	U	21	U
4-Methyl-2-pentanone	108-10-1	**5.500**	U	**5.500**	U	**5.600**	U	**5.600**	U
Acetone	67-64-1	**150**	BD	**98**	BD	**120**	BD	**130**	U
Acrolein	107-02-8	3.100	U	3.100	U	3.100	U	3.100	BD
Acrylonitrile	107-13-1	2.900	U	2.900	U	2.900	U	3	U
Benzene	71-43-2	**4.300**	U	**4.300**	U	**4.300**	U	**24**	U
Benzyl chloride	100-44-7	6.900	U	6.900	U	7	U	7.100	D
Bromodichloromethane	75-27-4	14	D	60	D	9.100	U	9.200	U

Table 4 (cont.)
Soil Vapor Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		VP-1		VP-2		VP-3		VP-4	
York ID		19C0284-01		19C0284-02		19C0284-03		19C0284-04	
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019	
Client Matrix		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, EPA TO15 Full List		ug/m3		ug/m3		ug/m3		ug/m3	
Dilution Factor		13.4		13.4		13.58		13.67	
Bromoform	75-25-2	14	U	14	U	14	U	14	U
Bromomethane	74-83-9	**5.200**	U	**5.200**	U	**5.300**	U	**5.300**	U
Carbon disulfide	75-15-0	4.200	U	4.200	U	6.300	D	4.300	U
Carbon tetrachloride	56-23-5	**2.100**	U	**2.100**	U	**2.100**	U	**2.200**	U
Chlorobenzene	108-90-7	**6.200**	U	**6.200**	U	**6.300**	U	**6.300**	U
Chloroethane	75-00-3	**3.500**	U	**3.500**	U	**3.600**	U	**3.600**	U
Chloroform	67-66-3	**130**	D	**370**	D	**17**	D	**13**	U
Chloromethane	74-87-3	**2.800**	U	**2.800**	U	**2.800**	U	**5.600**	D
cis-1,2-Dichloroethylene	156-59-2	**1.300**	U	**1.300**	U	**1.300**	U	**1.400**	D
cis-1,3-Dichloropropylene	10061-01-5	**6.100**	U	**6.100**	U	**6.200**	U	**6.200**	U
Cyclohexane	110-82-7	**4.600**	U	**150**	D	**4.700**	U	**32**	U
Dibromochloromethane	124-48-1	11	U	11	U	12	U	12	D
Dichlorodifluoromethane	75-71-8	**6.600**	U	**6.600**	U	**6.700**	U	**6.800**	U
Ethanol	64-17-5	2.500	U	2.500	U	2.600	U	2.600	U
Ethyl acetate	141-78-6	9.700	U	9.700	U	9.800	U	9.900	U
Ethyl Benzene	100-41-4	**5.800**	U	**12**	D	**5.900**	U	**7.700**	D
Hexachlorobutadiene	87-68-3	**14**	U	**14**	U	**14**	U	**15**	U
Isopropanol	67-63-0	6.600	U	6.600	U	6.700	U	6.700	U
Isopropylbenzene	98-82-8	6.600	U	12	D	6.700	U	6.700	U
Methyl Methacrylate	80-62-6	**5.500**	U	**5.500**	U	**5.600**	U	**5.600**	U
Methyl tert-butyl ether (MTBE)	1634-04-4	**4.800**	U	**4.800**	U	**4.900**	U	**4.900**	U
Methylene chloride	75-09-2	**9.300**	U	**9.300**	U	**9.400**	U	**9.500**	U
Naphthalene	91-20-3	14	U	14	U	14	U	14	U
n-Butylbenzene	104-51-8	7.400	U	7.400	U	7.500	U	7.500	U
n-Heptane	142-82-5	**6**	D	**5.500**	U	**5.600**	U	**170**	D
n-Hexane	110-54-3	**4.700**	U	**66**	D	**7.200**	D	**130**	D
n-Propylbenzene	103-65-1	6.600	U	7.200	D	6.700	U	6.700	U
o-Xylene	95-47-6	**5.800**	U	**5.800**	U	**5.900**	U	**14**	D
p- & m- Xylenes	179601-23-1	**12**	U	**12**	U	**12**	U	**31**	D
p-Ethyltoluene	622-96-8	6.600	U	6.600	U	6.700	U	6.700	U
p-Isopropyltoluene	99-87-6	7.400	U	7.400	U	7.500	U	7.500	U
Propylene	115-07-1	2.300	U	2.300	U	2.300	U	2.400	U

Table 4 (cont.)
Soil Vapor Sampling Results
100 E. 149th Street
Bronx, New York

Sample ID		VP-1		VP-2		VP-3		VP-4	
York ID		19C0284-01		19C0284-02		19C0284-03		19C0284-04	
Sampling Date		3/7/2019		3/7/2019		3/7/2019		3/7/2019	
Client Matrix		Soil Vapor		Soil Vapor		Soil Vapor		Soil Vapor	
Compound	**CAS Number**	Result	Q	Result	Q	Result	Q	Result	Q
Volatile Organics, EPA TO15 Full List		ug/m3		ug/m3		ug/m3		ug/m3	
Dilution Factor		13.4		13.4		13.58		13.67	
sec-Butylbenzene	135-98-8	7.400	U	7.400	U	7.500	U	7.500	U
Styrene	100-42-5	**5.700**	U	**5.700**	U	**5.800**	U	**5.800**	U
Tentatively Identified Compounds		0	U	0	U	0	U	0	U
tert-Butylbenzene	98-06-6	7.400	U	7.400	U	7.500	U	7.500	U
Tetrachloroethylene	127-18-4	**2.300**	U	**2.300**	U	**2.300**	U	**2.300**	U
Tetrahydrofuran	109-99-9	**7.900**	U	**7.900**	U	**8**	U	**8.100**	U
Toluene	108-88-3	**11**	BD	**5**	U	**7.200**	BD	**29**	BD
trans-1,2-Dichloroethylene	156-60-5	5.300	U	5.300	U	5.400	U	5.400	U
trans-1,3-Dichloropropylene	10061-02-6	**6.100**	U	**6.100**	U	**6.200**	U	**6.200**	U
Trichloroethylene	79-01-6	**1.800**	U	**1.800**	U	**1.800**	U	**1.800**	U
Trichlorofluoromethane (Freon 11	75-69-4	**7.500**	U	**7.500**	U	**7.600**	U	**7.700**	U
Vinyl acetate	108-05-4	4.700	U	4.700	U	4.800	U	4.800	U
Vinyl bromide	593-60-2	5.900	U	5.900	U	5.900	U	6	U
Vinyl Chloride	75-01-4	**0.860**	U	**0.860**	U	**0.870**	U	**0.870**	U

NOTES:

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

Phase II Environmental Site Assessment

100 East 149th Street
Bronx, New York

NYSDEC Spill Number 18-10498

Prepared for:
Tony Boemi
5 East 22nd Street
New York, New York

Touchstone Project Number 200101

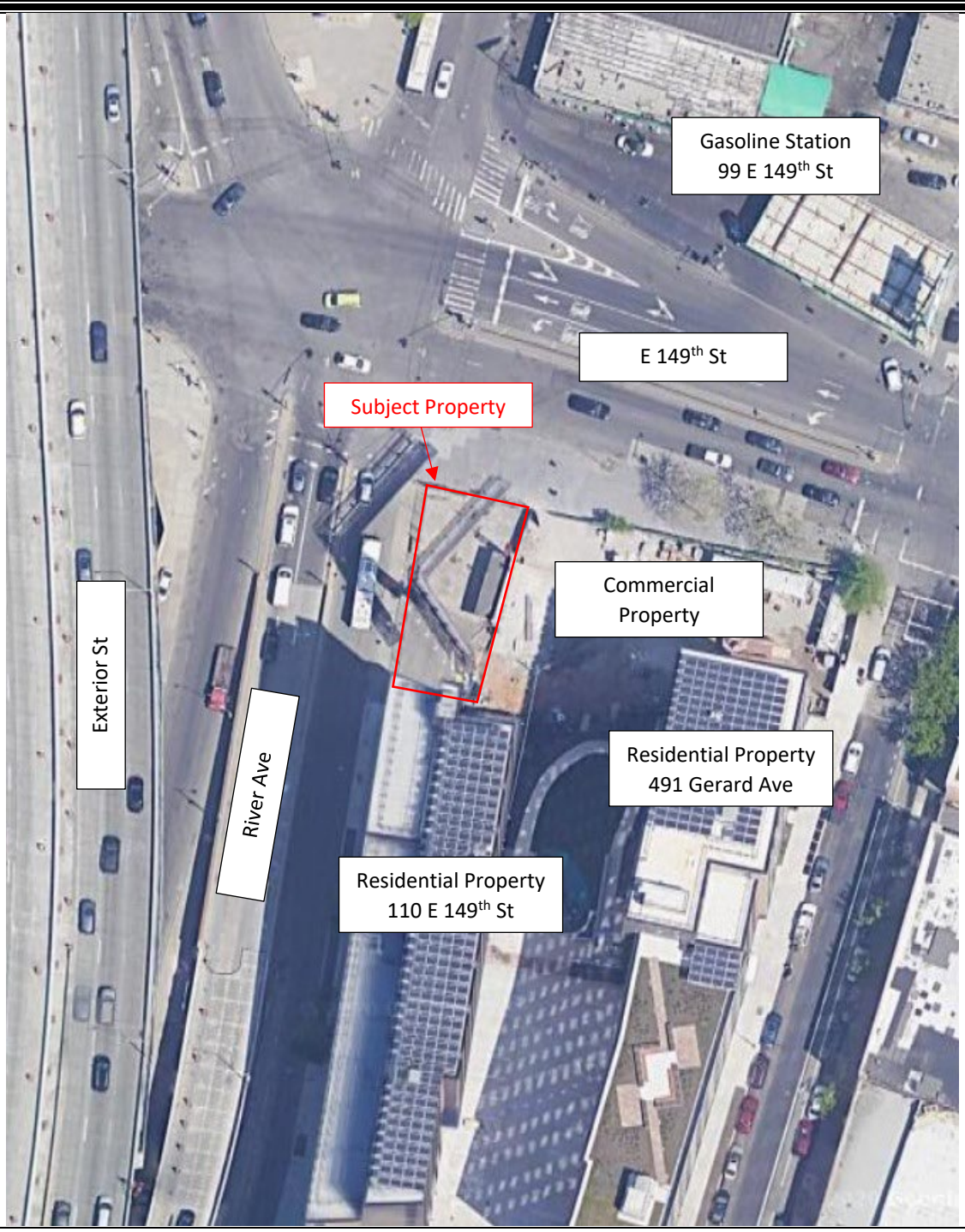


Figure 1: Location Map
100 East 149th St
Bronx, New York

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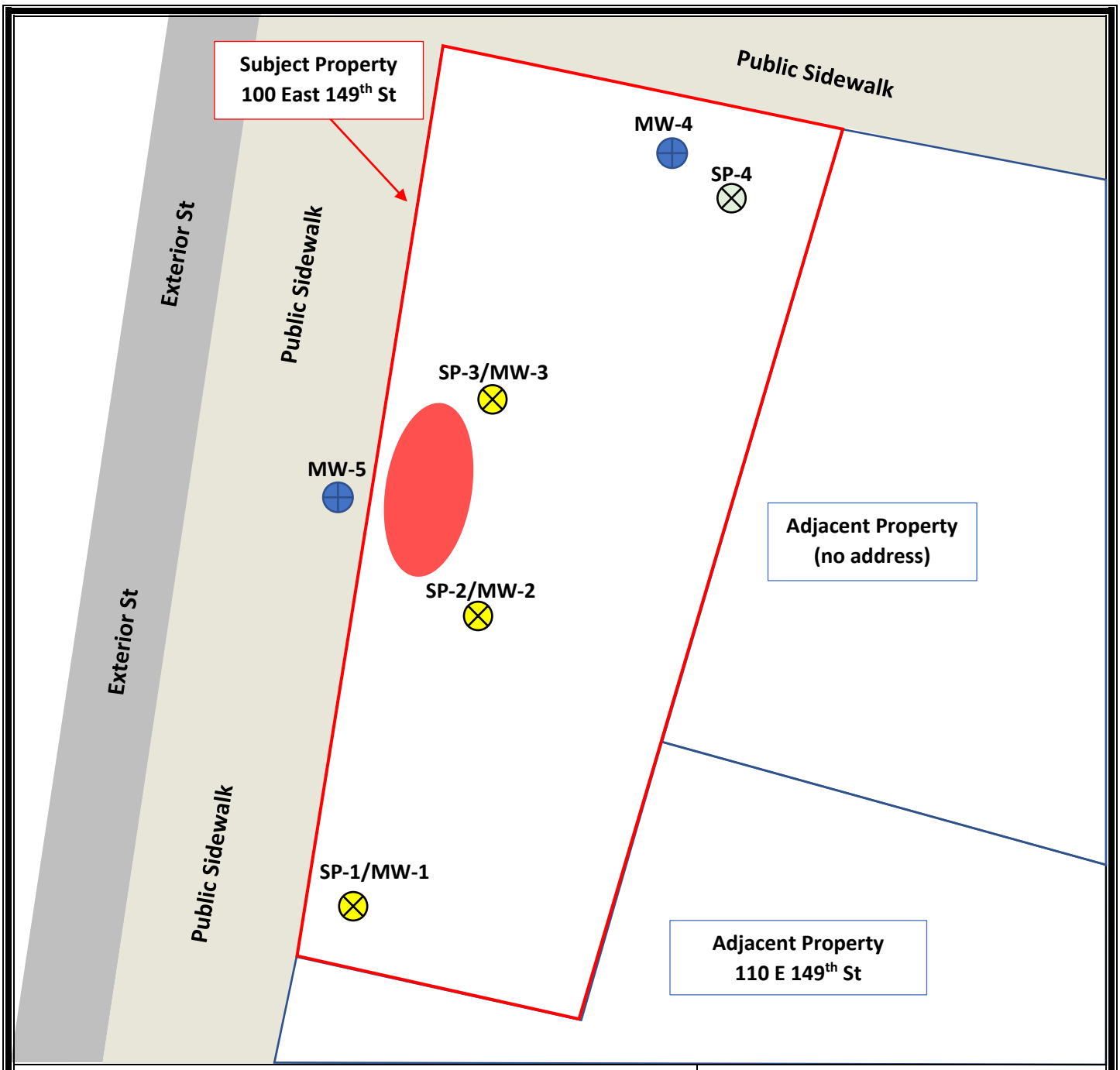

Key

- Location of Soil Probe
- Location of Monitoring Well
- Location of Soil Probe/Monitoring Well
- Location of Anomaly

Figure 2: Sample Location Map
100 East 149th Street
Bronx, New York

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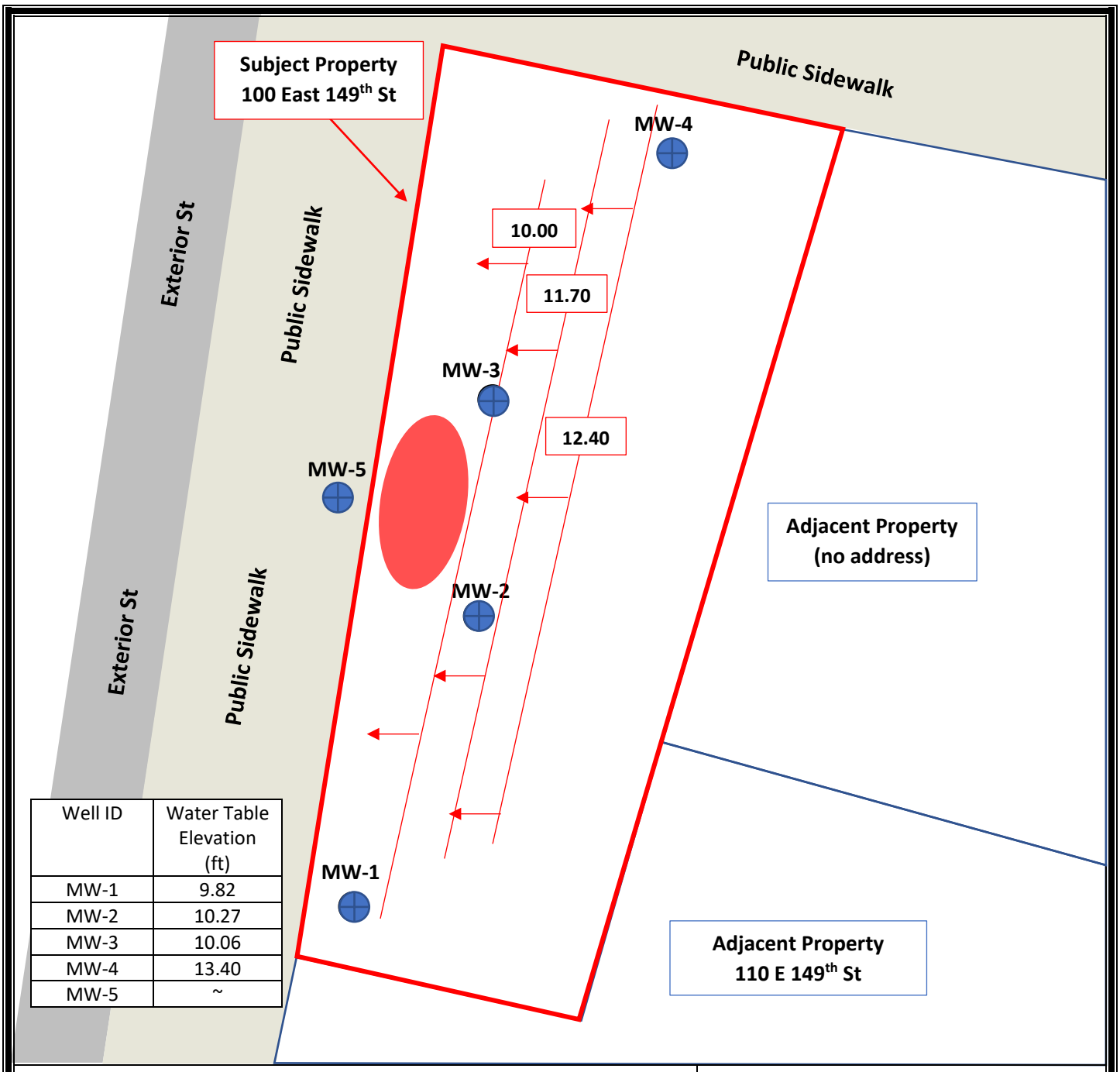
N



Well ID	Water Table Elevation (ft)
MW-1	9.82
MW-2	10.27
MW-3	10.06
MW-4	13.40
MW-5	~

Key

- Groundwater Elevation Contour
- Location of Monitoring Well
- Building on Subject Property

Figure 3: Groundwater Flow Diagram
100 East 149th Street
Bronx, New York

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Table 1

Groundwater Monitoring Data - October 2020

100 East 149th Street, Bronx, NY

Well ID	Benchmark	Shot	DTW	Water Table Elevation (ft)
MW-1	30	5.20	11.40	13.40
MW-2	30	5.24	14.70	10.06
MW-3	30	5.58	14.15	10.27
MW-4	30	5.98	14.20	9.82

All values reported in feet.

DTW…Depth to Water

DTP…Depth to Product

ND…None Detected

Table 2A
Soil Volatile Organic Compounds Analytical Results
100 East 149th Street, Bronx, New York

Sample ID	SP1 2.5-5		SP1 7.5-10		SP2 2.5-5		SP2 12.5-15		SP3 7.5-10		SP3 10-12.5		SP4 5-7.5		SP4 10-12.5		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
Sampling Date	9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
Unit	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
1,1,1,2-Tetrachloroethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,1,1-Trichloroethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.68
1,1,2,2-Tetrachloroethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,1,2-Trichloroethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,1-Dichloroethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.27
1,1-Dichloroethylene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.33
1,2,3-Trichlorobenzene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,2,3-Trichloropropane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,2,4-Trichlorobenzene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,2,4-Trimethylbenzene	0.00240	U	0.00230	U	**1.600**	**D**	**36**	**DE**	0.00330	U	**61**	**D**	**0.420**	**JD**	0.310	U	3.6
1,2-Dibromo-3-chloropropane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,2-Dibromoethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,2-Dichlorobenzene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	1.1
1,2-Dichloroethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.02
1,2-Dichloropropane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
1,3,5-Trimethylbenzene	0.00240	U	0.00230	U	0.420	U	**15**	**D**	0.00330	U	**12**	**D**	0.220	U	0.310	U	8.4
1,3-Dichlorobenzene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	2.4
1,4-Dichlorobenzene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	1.8
1,4-Dioxane	0.0480	U	0.0450	U	8.300	U	5	U	0.0660	U	7	U	4.500	U	6.100	U	0.1
2-Butanone	**0.0160**		0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.12
2-Hexanone	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
4-Methyl-2-pentanone	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Acetone	**0.0650**		0.00450	U	0.830	U	0.500	U	**0.0260**		0.700	U	0.450	U	0.610	U	0.05
Acrolein	0.00480	U	0.00450	U	0.830	U	0.500	U	0.00660	U	0.700	U	0.450	U	0.610	U	~
Acrylonitrile	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Benzene	0.00240	U	0.00230	U	0.420	U	**0.960**	**D**	0.00330	U	0.350	U	**0.470**	**D**	**0.950**	**D**	0.06
Bromochloromethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Bromodichloromethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Bromoform	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Bromomethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Carbon disulfide	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Carbon tetrachloride	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.76
Chlorobenzene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	1.1
Chloroethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Chloroform	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.37
Chloromethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
cis-1,2-Dichloroethylene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.25
cis-1,3-Dichloropropylene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Cyclohexane	0.00240	U	0.00230	U	0.420	U	**8.900**	**D**	0.00330	U	0.350	U	0.220	U	**16**	**D**	~
Dibromochloromethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Dibromomethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Dichlorodifluoromethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Ethyl Benzene	0.00240	U	0.00230	U	**7.500**	**D**	**17**	**D**	0.00330	U	**4.400**	**D**	**0.250**	**JD**	0.310	U	1
Hexachlorobutadiene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Isopropylbenzene	0.00240	U	0.00230	U	**4**	**D**	**2**	**D**	0.00330	U	**3.400**	**D**	**0.300**	**JD**	**1.600**	**D**	~
Methyl acetate	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Methyl tert-butyl ether (MTBE)	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.93
Methylcyclohexane	0.00240	U	0.00230	U	**120**	**D**	**36**	**DE**	0.00330	U	**8.100**	**D**	**0.720**	**D**	**38**	**D**	~
Methylene chloride	0.00480	U	0.00450	U	0.830	U	0.500	U	0.00660	U	0.700	U	0.450	U	0.610	U	0.05
n-Butylbenzene	0.00240	U	0.00230	U	**6.400**	**D**	**1.500**	**D**	0.00330	U	**5**	**D**	0.220	U	**0.950**	**D**	12
n-Propylbenzene	0.00240	U	0.00230	U	**15**	**D**	**6.900**	**D**	0.00330	U	**17**	**D**	**0.780**	**D**	**3.100**	**D**	3.9
o-Xylene	0.00240	U	0.00230	U	**0.560**	**JD**	**7.300**	**D**	0.00330	U	0.350	U	0.220	U	0.310	U	~
p- & m- Xylenes	0.00480	U	0.00450	U	**2.800**	**D**	**29**	**D**	0.00660	U	**3**	**D**	**0.690**	**JD**	0.610	U	~
p-Isopropyltoluene	0.00240	U	0.00230	U	**0.520**	**JD**	**1**	**D**	0.00330	U	**1.800**	**D**	0.220	U	0.310	U	~
sec-Butylbenzene	0.00240	U	0.00230	U	**3.500**	**D**	**0.700**	**D**	0.00330	U	**2.900**	**D**	**0.400**	**JD**	**0.510**	**JD**	11
Styrene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
tert-Butyl alcohol (TBA)	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
tert-Butylbenzene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	5.9
Tetrachloroethylene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	1.3
Toluene	0.00240	U	0.00230	U	**1.100**	**D**	**2.400**	**D**	0.00330	U	0.350	U	**0.510**	**D**	0.310	U	0.7
trans-1,2-Dichloroethylene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.19
trans-1,3-Dichloropropylene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
trans-1,4-dichloro-2-butene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Trichloroethylene	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.47
Trichlorofluoromethane	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	~
Vinyl Chloride	0.00240	U	0.00230	U	0.420	U	0.250	U	0.00330	U	0.350	U	0.220	U	0.310	U	0.02
Xylenes, Total	0.00720	U	0.00680	U	**3.400**	**D**	**36**	**D**	0.00990	U	**3**	**D**	**0.690**	**JD**	0.920	U	0.26
Total BTEX	-		-		12.000		56.360		-		7.400		1.920		0.950		-
Total VOCs	0.065		-		166.380		200.660		0.026		116.600		5.230		61.110		-

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 2B
Soil Semi-Volatile Organic Compounds Analytical Results
100 East 149th Street, Bronx, New York

Sample ID	SP1 2.5-5		SP1 7.5-10		SP2 2.5-5		SP2 12.5-15		SP3 7.5-10		SP3 10-12.5		SP4 5-7.5		SP4 10-12.5		NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
Sampling Date	9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		
Client Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		
Unit	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
1,2,4-Trichlorobenzene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
1,2-Dichlorobenzene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	1.1
1,3-Dichlorobenzene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	2.4
1,4-Dichlorobenzene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	1.8
2,4-Dinitrotoluene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
2,6-Dinitrotoluene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
2-Chloronaphthalene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
2-Methylnaphthalene	**0.0998**	**D**	**0.618**	**D**	**0.231**	**D**	**44**	**D**	**0.154**	**D**	**0.325**	**D**	**2.790**	**D**	**0.120**	**JD**	~
3,3-Dichlorobenzidine	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
3-Nitroaniline	0.0946	U	0.0916	U	0.0969	U	0.486	U	0.0942	U	0.0896	U	0.0894	U	0.172	U	~
4-Bromophenyl phenyl ether	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
4-Chloroaniline	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
4-Chlorophenyl phenyl ether	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
4-Nitroaniline	0.0946	U	0.0916	U	0.0969	U	0.486	U	0.0942	U	0.0896	U	0.0894	U	0.172	U	~
Acenaphthene	**0.365**	**D**	**2**	**D**	0.0485	U	**0.365**	**JD**	**0.270**	**D**	**0.0523**	**JD**	**3.070**	**D**	**0.604**	**D**	20
Acenaphthylene	**0.128**	**D**	**0.0637**	**JD**	0.0485	U	0.244	U	**0.511**	**D**	**0.0767**	**JD**	**0.264**	**D**	0.0862	U	100
Aniline	0.189	U	0.183	U	0.194	U	0.973	U	0.189	U	0.179	U	0.179	U	0.345	U	~
Anthracene	**1.170**	**D**	**5.210**	**D**	0.0485	U	**0.637**	**D**	**0.913**	**D**	**0.160**	**D**	**10.600**	**D**	**0.679**	**D**	100
Benzo(a)anthracene	**3.640**	**D**	**6.950**	**D**	**0.0588**	**JD**	**1.800**	**D**	**2.720**	**D**	**0.464**	**D**	**19.700**	**D**	**2.670**	**D**	1
Benzo(a)pyrene	**4.080**	**D**	**6.610**	**D**	**0.0875**	**JD**	**2.170**	**D**	**3.080**	**D**	**0.431**	**D**	**21**	**D**	**3.250**	**D**	1
Benzo(b)fluoranthene	**2.650**	**D**	**4.970**	**D**	**0.0790**	**JD**	**1.690**	**D**	**2.400**	**D**	**0.373**	**D**	**15.900**	**D**	**2.520**	**D**	1
Benzo(g,h,i)perylene	**2.480**	**D**	**4.240**	**D**	**0.0759**	**JD**	**1.550**	**D**	**2.010**	**D**	**0.265**	**D**	**13.900**	**D**	**2.130**	**D**	100
Benzo(k)fluoranthene	**2.120**	**D**	**4.700**	**D**	**0.0596**	**JD**	**1.550**	**D**	**2.220**	**D**	**0.324**	**D**	**14.800**	**D**	**2.110**	**D**	0.8
Benzyl butyl phthalate	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Bis(2-chloroethoxy)methane	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Bis(2-chloroethyl)ether	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Bis(2-chloroisopropyl)ether	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Bis(2-ethylhexyl)phthalate	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Carbazole	**0.200**	**D**	**0.989**	**D**	0.0485	U	**0.245**	**JD**	**0.281**	**D**	**0.0466**	**JD**	**0.647**	**D**	0.0862	U	~
Chrysene	**2.960**	**D**	**5.940**	**D**	**0.0705**	**JD**	**2.020**	**D**	**2.980**	**D**	**0.491**	**D**	**18.200**	**D**	**3.030**	**D**	1
Dibenzo(a,h)anthracene	**0.756**	**D**	**1.050**	**D**	0.0485	U	**0.478**	**JD**	**0.691**	**D**	**0.0896**	**JD**	**1.130**	**JD**	**0.657**	**D**	0.33
Dibenzofuran	**0.201**	**D**	**1.390**	**D**	0.0485	U	0.244	U	**0.104**	**D**	0.0449	U	**2.210**	**D**	0.0862	U	7
Diethyl phthalate	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Dimethyl phthalate	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Di-n-butyl phthalate	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Di-n-octyl phthalate	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Fluoranthene	**7.040**	**D**	**18.700**	**D**	**0.123**	**D**	**3.480**	**D**	**5.090**	**D**	**0.939**	**D**	**46.600**	**D**	**4.200**	**D**	100
Fluorene	**0.409**	**D**	**2.150**	**D**	0.0485	U	0.474	JD	**0.267**	**D**	**0.0559**	**JD**	**3.860**	**D**	**0.378**	**D**	30
Hexachlorobenzene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	0.33
Hexachlorobutadiene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Hexachlorocyclopentadiene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Hexachloroethane	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Indeno(1,2,3-cd)pyrene	**2.540**	**D**	**4.540**	**D**	**0.0736**	**JD**	**1.550**	**D**	**2.120**	**D**	**0.279**	**D**	**14.700**	**D**	**2.220**	**D**	0.5
Isophorone	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Naphthalene	**0.0968**	**D**	**0.564**	**D**	**0.316**	**D**	**50.800**	**D**	**0.224**	**D**	**0.590**	**D**	**1.590**	**D**	0.0862	U	12
Nitrobenzene	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
N-Nitrosodimethylamine	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
N-nitroso-di-n-propylamine	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
N-Nitrosodiphenylamine	0.0474	U	0.0459	U	0.0485	U	0.244	U	0.0472	U	0.0449	U	0.0448	U	0.0862	U	~
Phenanthrene	**3.960**	**D**	**21.300**	**D**	**0.110**	**D**	**2.640**	**D**	**3.670**	**D**	**0.774**	**D**	**32.700**	**D**	**2.700**	**D**	100
Pyrene	**6.840**	**D**	**16.600**	**D**	**0.132**	**D**	**3.690**	**D**	**5.870**	**D**	**0.956**	**D**	**40.900**	**D**	**5.360**	**D**	100
Pyridine	0.189	U	0.183	U	0.194	U	0.973	U	0.189	U	0.179	U	0.179	U	0.345	U	~

NOTES:
Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:
D=result is from an analysis that required a dilution
J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
U=analyte not detected at or above the level indicated
B=analyte found in the analysis batch blank
E=result is estimated and cannot be accurately reported due to levels encountered or interferences
P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
NT=this indicates the analyte was not a target for this sample
~=this indicates that no regulatory limit has been established for this analyte

Table 3A
Groundwater Volatile Organic Compounds Analytical Results
100 East 149th Street, Bronx, New York

Sample ID	MW1		MW2		MW3		MW4		MW5		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		
Client Matrix	Water		Water		Water		Water		Water		
Unit	ug/L		ug/L		ug/L		ug/L		ug/L		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
1,1,1,2-Tetrachloroethane	2	U	40	U	5	U	20	U	2	U	5
1,1,1-Trichloroethane	2	U	40	U	5	U	20	U	2	U	5
1,1,2,2-Tetrachloroethane	2	U	40	U	5	U	20	U	2	U	5
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2	U	40	U	5	U	20	U	2	U	5
1,1,2-Trichloroethane	2	U	40	U	5	U	20	U	**2**	U	1
1,1-Dichloroethane	2	U	40	U	5	U	20	U	2	U	5
1,1-Dichloroethylene	2	U	40	U	5	U	20	U	2	U	5
1,2,3-Trichlorobenzene	2	U	40	U	5	U	20	U	2	U	5
1,2,3-Trichloropropane	2	U	40	U	5	U	20	U	**2**	U	0.04
1,2,4-Trichlorobenzene	2	U	40	U	5	U	20	U	2	U	5
1,2,4-Trimethylbenzene	**4.900**	**JD**	**120**	**D**	**26**	**D**	**42**	**JD**	**210**	**D**	5
1,2-Dibromo-3-chloropropane	2	U	40	U	5	U	20	U	2	U	0.04
1,2-Dibromoethane	2	U	40	U	5	U	20	U	2	U	0.0006
1,2-Dichlorobenzene	2	U	40	U	5	U	20	U	2	U	3
1,2-Dichloroethane	2	U	40	U	5	U	20	U	2	U	0.6
1,2-Dichloropropane	2	U	40	U	5	U	20	U	2	U	1
1,3,5-Trimethylbenzene	**84**	**D**	**210**	**D**	5	U	**38**	**JD**	**100**	**D**	5
1,3-Dichlorobenzene	2	U	40	U	5	U	20	U	2	U	3
1,4-Dichlorobenzene	2	U	40	U	5	U	20	U	2	U	3
1,4-Dioxane	400	U	8,000	U	1,000	U	4,000	U	400	U	~
2-Butanone	2	U	40	U	5	U	20	U	2	U	50
2-Hexanone	2	U	40	U	5	U	20	U	2	U	50
4-Methyl-2-pentanone	2	U	40	U	5	U	20	U	2	U	~
Acetone	10	U	200	U	25	U	100	U	10	U	50
Acrolein	2	U	40	U	5	U	20	U	2	U	~
Acrylonitrile	2	U	40	U	5	U	20	U	2	U	~
Benzene	**5.300**	**D**	**520**	**D**	**9**	**JD**	**820**	**D**	**88**	**D**	1
Bromochloromethane	2	U	40	U	5	U	20	U	2	U	5
Bromodichloromethane	2	U	40	U	5	U	20	U	2	U	50
Bromoform	2	U	40	U	5	U	20	U	2	U	50
Bromomethane	2	U	40	U	5	U	20	U	2	U	5
Carbon disulfide	2	U	40	U	5	U	20	U	2	U	~
Carbon tetrachloride	2	U	40	U	5	U	20	U	2	U	5
Chlorobenzene	2	U	40	U	5	U	20	U	2	U	5
Chloroethane	2	U	40	U	5	U	20	U	2	U	5
Chloroform	2	U	40	U	5	U	20	U	2	U	7
Chloromethane	2	U	40	U	5	U	20	U	2	U	5
cis-1,2-Dichloroethylene	2	U	40	U	5	U	20	U	2	U	5
cis-1,3-Dichloropropylene	2	U	40	U	5	U	20	U	2	U	0.4
Cyclohexane	**320**	**D**	**530**	**D**	**42**	**D**	**530**	**D**	**260**	**D**	~
Dibromochloromethane	2	U	40	U	5	U	20	U	2	U	50
Dibromomethane	2	U	40	U	5	U	20	U	2	U	~
Dichlorodifluoromethane	2	U	40	U	5	U	**20**	U	2	U	5
Ethyl Benzene	**120**	**D**	**400**	**D**	**20**	**D**	**130**	**D**	**180**	**D**	5
Hexachlorobutadiene	2	U	40	U	5	U	20	U	2	U	0.5
Isopropylbenzene	**33**	**D**	**84**	**JD**	**16**	**D**	**88**	**D**	**78**	**D**	5
Methyl acetate	2	U	40	U	5	U	20	U	2	U	~
Methyl tert-butyl ether (MTBE)	2	U	40	U	5	U	20	U	2	U	10
Methylcyclohexane	**560**	**D**	**570**	**D**	**20**	**D**	**520**	**D**	**400**	**D**	~
Methylene chloride	10	U	200	U	25	U	100	U	10	U	5
n-Butylbenzene	**20**	**D**	**42**	**JD**	**7.800**	**JD**	**37**	JD	**29**	**D**	5
n-Propylbenzene	**87**	**D**	**210**	**D**	**45**	**D**	**200**	D	**220**	**D**	5
o-Xylene	**9**	**D**	40	U	5	U	**28**	JD	**88**	**D**	5
p- & m- Xylenes	**31**	**D**	**260**	**D**	12	U	**120**	D	**490**	**D**	5
p-Isopropyltoluene	**8.200**	**D**	40	U	5	U	20	U	**3.200**	**JD**	5
sec-Butylbenzene	**8.700**	**D**	40	U	**14**	**D**	20	U	**13**	**D**	5
Styrene	2	U	40	U	5	U	20	U	2	U	5
tert-Butyl alcohol (TBA)	5	U	100	U	12	U	50	U	5	U	~
tert-Butylbenzene	2	U	40	U	5	U	20	U	2	U	5
Tetrachloroethylene	2	U	40	U	5	U	20	U	2	U	5
Toluene	**11**	**D**	**100**	**D**	5	U	**73**	**D**	**70**	**D**	5
trans-1,2-Dichloroethylene	2	U	40	U	5	U	20	U	2	U	5
trans-1,3-Dichloropropylene	2	U	40	U	5	U	20	U	2	U	0.4
trans-1,4-dichloro-2-butene	2	U	40	U	5	U	20	U	2	U	~
Trichloroethylene	2	U	40	U	5	U	20	U	2	U	5
Trichlorofluoromethane	2	U	40	U	5	U	20	U	2	U	5
Vinyl Chloride	2	U	40	U	5	U	20	U	2	U	2
Xylenes, Total	**40**	**D**	**260**	**JD**	15	U	**140**	**JD**	**580**	**D**	5
BTEX	**176**		**1,280**		**29**		**1,163**		**918**		-
Total VOCs	**1,342**		**3,306**		**200**		**2,766**		**2,809**		-

NOTES:

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U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

Table 3B
Groundwater Semi-Volatile Organic Compounds Analytical Results
100 East 149th Street, Bronx, New York

Sample ID	MW1		MW2		MW3		MW4		MW5		NYSDEC TOGS Standards and Guidance Values - GA
Sampling Date	9/15/2020		9/15/2020		9/15/2020		9/15/2020		9/15/2020		
Client Matrix	Water		Water		Water		Water		Water		
Unit	ug/L		ug/L		ug/L		ug/L		ug/L		
Compound	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
1,2,4-Trichlorobenzene	2.740	U	2.910	U	2.470	U	2.740	U	2.470	U	5
1,2-Dichlorobenzene	2.770	U	2.930	U	2.490	U	2.770	U	2.490	U	3
1,3-Dichlorobenzene	2.900	U	3.070	U	2.610	U	2.900	U	2.610	U	3
1,4-Dichlorobenzene	2.460	U	2.600	U	2.210	U	2.460	U	2.210	U	3
2,4-Dinitrotoluene	1.790	U	1.890	U	1.610	U	1.790	U	1.610	U	5
2,6-Dinitrotoluene	1.790	U	1.890	U	1.610	U	1.790	U	1.610	U	5
2-Chloronaphthalene	2.440	U	2.590	U	2.200	U	2.440	U	2.200	U	10
2-Methylnaphthalene	**12.600**		**40.100**		2.760	U	**24.900**		**48.700**	**D**	~
2-Nitroaniline	1.870	U	1.980	U	1.680	U	1.870	U	1.680	U	5
3,3-Dichlorobenzidine	1.410	U	1.490	U	1.270	U	1.410	U	1.270	U	5
3-Nitroaniline	1.870	U	1.980	U	1.680	U	1.870	U	1.680	U	5
4-Bromophenyl phenyl ether	1.480	U	1.560	U	1.330	U	1.480	U	1.330	U	~
4-Chloroaniline	3.310	U	3.510	U	2.980	U	3.310	U	2.980	U	5
4-Chlorophenyl phenyl ether	2.720	U	2.880	U	2.450	U	2.720	U	2.450	U	~
4-Nitroaniline	2.980	U	3.150	U	2.680	U	2.980	U	2.680	U	5
Acenaphthene	**0.789**		**0.671**		**0.120**		**0.367**		**0.310**		20
Acenaphthylene	**0.0778**		**0.0588**	**J**	0.0500	U	0.0556	U	0.0500	U	~
Aniline	1.670	U	1.760	U	1.500	U	1.670	U	1.500	U	5
Anthracene	**0.344**		**0.247**		**0.0600**		**0.100**		**0.0700**		50
Benzo(a)anthracene	**0.267**		**0.188**		**0.0500**	**J**	**0.100**		**0.0500**	**J**	0.002
Benzo(a)pyrene	**0.178**		**0.188**		**0.0600**		**0.0889**		0.0500	U	0.002
Benzo(b)fluoranthene	**0.156**		**0.141**		**0.0800**		**0.0667**		0.0500	U	0.002
Benzo(g,h,i)perylene	**0.0889**		**0.129**		**0.0600**		**0.0556**	**J**	0.0500	U	~
Benzo(k)fluoranthene	**0.167**		**0.141**		0.0500	U	**0.0667**		0.0500	U	0.002
Benzyl butyl phthalate	0.947	U	1	U	0.852	U	0.947	U	0.852	U	50
Bis(2-chloroethoxy)methane	1.970	U	2.080	U	1.770	U	1.970	U	1.770	U	5
Bis(2-chloroethyl)ether	1.670	U	1.760	U	1.500	U	1.670	U	1.500	U	1
Bis(2-chloroisopropyl)ether	3.320	U	3.520	U	2.990	U	3.320	U	2.990	U	5
Bis(2-ethylhexyl)phthalate	0.556	U	0.588	U	0.500	U	0.556	U	0.500	U	5
Carbazole	1.460	U	1.540	U	1.310	U	1.460	U	1.310	U	~
Chrysene	**0.222**		**0.176**		**0.0600**		**0.0889**		0.0500	U	0.002
Dibenzo(a,h)anthracene	0.0556	U	0.0588	U	0.0500	U	0.0556	U	0.0500	U	~
Dibenzofuran	2.680	U	2.840	U	2.410	U	2.680	U	2.410	U	~
Diethyl phthalate	2.840	U	3.010	U	2.560	U	2.840	U	2.560	U	50
Dimethyl phthalate	2.120	U	2.250	U	1.910	U	2.120	U	1.910	U	50
Di-n-butyl phthalate	2.280	U	2.410	U	2.050	U	2.280	U	2.050	U	50
Di-n-octyl phthalate	1.240	U	1.320	U	1.120	U	1.240	U	1.120	U	50
Fluoranthene	**1.010**		**0.647**		**0.240**		**0.311**		**0.210**		50
Fluorene	**0.711**		**0.471**		**0.120**		**0.211**		**0.200**		50
Hexachlorobenzene	0.0222	U	0.0235	U	0.0200	U	0.0222	U	0.0200	U	0.04
Hexachlorobutadiene	0.556	U	0.588	U	0.500	U	0.556	U	0.500	U	0.5
Hexachlorocyclopentadiene	2.810	U	2.980	U	2.530	U	2.810	U	2.530	U	5
Hexachloroethane	0.556	U	0.588	U	0.500	U	0.556	U	0.500	U	5
Indeno(1,2,3-cd)pyrene	**0.0778**		**0.129**		0.0500	U	**0.0556**	**J**	0.0500	U	0.002
Isophorone	2.980	U	3.150	U	2.680	U	2.980	U	2.680	U	50
Naphthalene	**46.600**	**D**	**203**	**D**	**2.850**		**85.800**	**D**	**175**	**D**	10
Nitrobenzene	0.278	U	0.294	U	0.250	U	0.278	U	0.250	U	0.4
N-Nitrosodimethylamine	0.556	U	0.588	U	0.500	U	0.556	U	0.500	U	~
N-nitroso-di-n-propylamine	2.840	U	3.010	U	2.560	U	2.840	U	2.560	U	~
N-Nitrosodiphenylamine	5.560	U	5.880	U	5	U	5.560	U	5	U	50
Phenanthrene	**1.930**		**1**		**0.140**		**0.456**		**0.400**		50
Pyrene	**0.811**		**0.541**		**0.230**		**0.311**		**0.180**		50
Pyridine	4.340	U	4.600	U	3.910	U	4.340	U	3.910	U	50

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis

NT=this indicates the analyte was not a target for this sample

~=this indicates that no regulatory limit has been established for this analyte

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

Phase I Environmental Site Assessment

100 East 149th Street
Bronx, New York 10451

RGDC 149 LLC
214 W. 39th St., Suite 1200
New York, NY 10018

April 21, 2022

Touchstone Project Number: 220243

Address: 1919 Middle Country Road, Suite 205, Centereach, New York
Office Phone: 631-315-2733
Website: Touchstone-Environmental.com

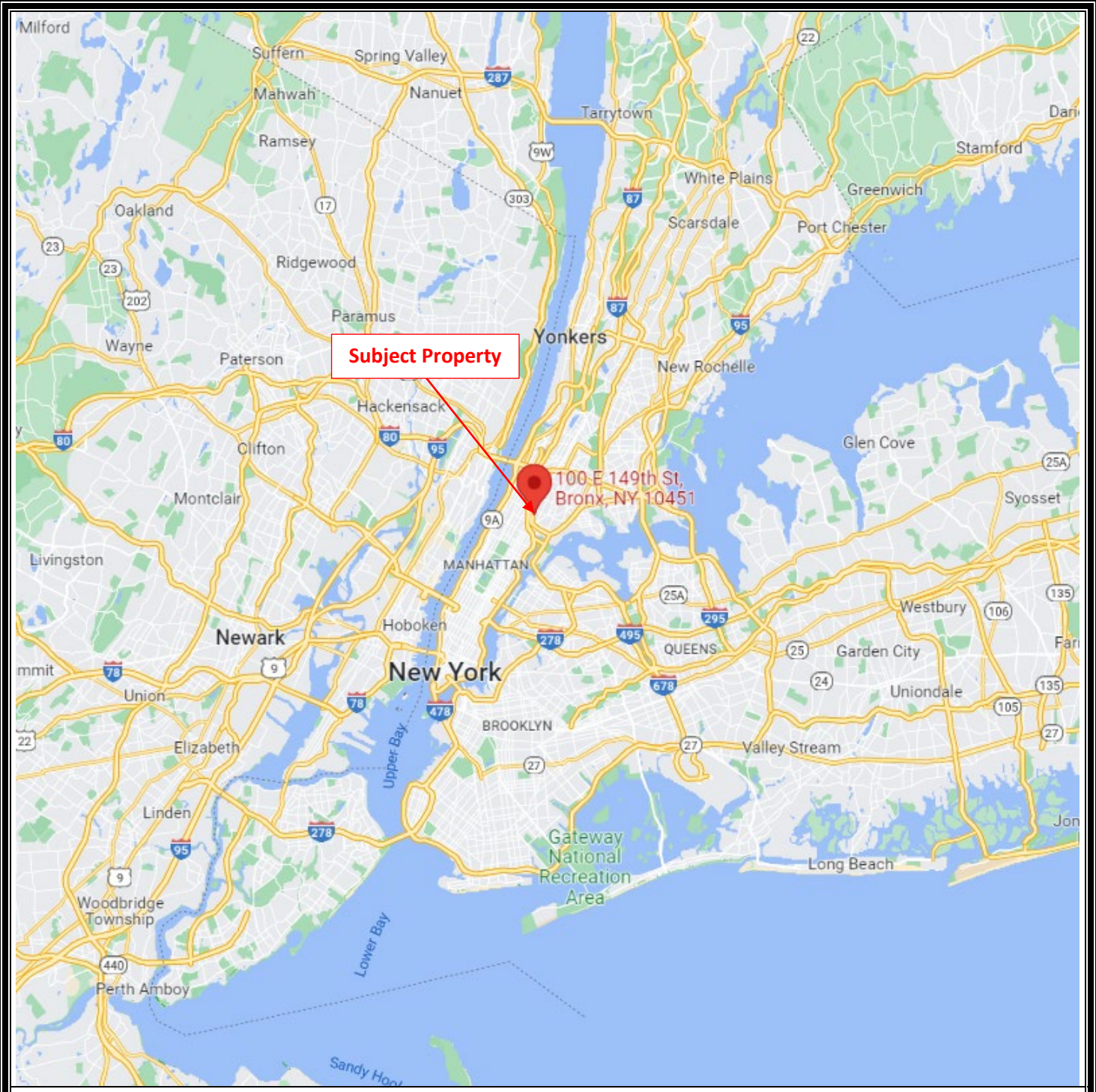

Figure 1: Site Location Map
100 East 149th Street
Bronx, NY

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Figure 2: Site Plan
100 East 149th Street
Bronx, New York

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ATTACHMENT B

RESUMES

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

RACHEL ATAMAN, PG
PRESIDENT

SUMMARY OF EXPERIENCE

Having worked in the environmental field since 2003, I have a vast understating of the Environmental world in New York State. I have worked on multiple projects ranging from Phase I ESAs, Phase II ESAs, Mold Investigations to New York State Brownfield Cleanup Projects. Additionally, I have worked closely with clients to meet their specific project needs such as deadlines, project grants and program requirements. Using my vast experience I also assisted clients in cost estimates for future investigations or remediations.

RELEVANT PROJECT EXPERIENCE

- Recently completed the investigation and Remedial Design for a 3-story building on Moffat Street in Brooklyn. The investigation included the installation and sampling of a series of soil probes, monitoring wells and soil vapor probes. The remedial design included the excavation and property disposal of soils within the foundation and the installation of a vapor barrier beneath the foundation. The Investigation and Remedial Design were approved by the New York City Office of Environmental Projection since the site is going through a zoning variance.
- Was instrumental in entering the first site (Pelham Parkway) into New York City Brownfield Cleanup program (BCP) and bringing Mayor Bloomberg to the Site to announce the start of the City's BCP. I then managed the environmental requirements of the site including City Environmental Quality Review, Phase I ESAs, Site Investigations, Remedial Action Work Plans and the Site Remedation during development.
- Managed a large variety of New York City Brownfield Cleanup Projects including the preparation of the Site Investigation Work Plans, implementation of the fieldwork, the preparation of Site Investigation Report and Remediation Action Plans. Also successfully managed the implementation of Remedial Action Plans during fieldwork. On a site location on North 8th Street in Brooklyn, New York, supervised the removal of 10,000 tons of contaminated soil and the installation of a vapor barrier and sub-slab depressurization system.
- Knowledgeable in the characterization of soil for disposal. On a NYC BCP site located on Third Avenue in the Bronx I successfully investigated and managed the disposal of over 2,000 tons of hazardous soil.
- Sucessfully investigated and managed the closure of hundreds of NYSDEC Spill Sites. For example she recently completely the closusre of a Spill on Anthony Avenue by investigating soils and determining a subsurface impact was not identified. Additionally, successfully remediated a site on Burnside Avenue in Inwood through the removal of three underground storage tanks (USTs), over 100 tons of petroleum contaminated soil, the injection of Oxygen Releasing Compounds (ORC) and the performance of monthly monitoring and quarterly sampling of

groundwater over a 2 year period. The remediation was successful in reducing the levels of contamination in groundwater and the NYSDEC Spill number was closed.

- Supervised the removal of four underground storage tanks for the Rockland County Sewer District and continue to work with the RCSD on the update of the Sewer Plants from underground storage tanks to above ground storage tanks.
- Performed hundreds of Phase I ESA site inspections and has reviewed and written hundreds of Phase I ESAs as well. Based upon the results of the Phase I ESA, determined the proper scope of work for the Phase II ESAs, prepared Phase II ESA scopes of work and proposals and then properly implemented the Phase II ESA.

Technical Responsibilities:
Coordinates work with regulatory agencies and organizes project schedules with clients, project geologists, and field managers.
Phase I and Phase II Environmental Site Assessments
Design and Management of Site Investigations
"E"-Designations
Site Supervision and Remediation
Environmental Assessment Statements
Mold testing
Air Quality/control
Technical review of assessment reports, remedial action plans, mold investigations
Remedial Action:
Implemented numerous Remedial Action Plans. Supervised the construction and managed the operation of numerous hydrocarbon and chlorinated solvent remediation systems for soil and groundwater.

EDUCATION
BS Geology, SUNY Stony Brook, 2001
Affiliations/Certifications:
New York State Professional Geologist License #000900
Certified GPR Operator (Subsurface Interface Radar in Engineering)
10-Hour OSHA Hazard Recognition Training for The Construction Industry Course on 2/13/2018
Certified by ASTM for the E-1527 Phase I ESA

PUBLICATIONS
"Sick Building Syndrome: How it is affecting you and what you can do about it" New York Real Estate Journal.
"Managing Lead-Based Pain in Houses/Apartments" New York Real Estate Journal
"Without Profit Brownfield Development will Not be Sustaniable" New York Real Estate Journal
"What are the options for Soil Disposal During the Construction of the Next Property" New York Real Estate Journal

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

Gabrielle Castro
Senior Project Manager for Touchstone Environmental Geology, P.G.

SUMMARY OF EXPERIENCE

Working in various sections of environmental sciences throughout the course of my career has provided me with an understanding of the local environment in New York State. I have worked on projects including Phase I and Phase II Environmental Site Assessments as well as New York Brownfield Cleanup Projects and investigations for the New York City Office of Environmental Remediation. Throughout my career, I have worked effectively to meet deadlines and program requirements and to ensure accuracy in the data I have collected and analyzed.

RELEVANT PROJECT EXPERIENCE

- Recently completed waste characterization testing as part of a Phase II Investigation on Fulton Street in Brooklyn, New York. The investigation included the installation, sampling, and collection of a series of soil probes. The investigation and Remedial Design were approved by the New York City Office of Environmental Remediation.
- Written a number of for Phase I Environmental Site Assessments (ESAs). Recommendations for Phase II ESAs were then based upon the results of the Phase I ESAs and Phase II ESAs were then properly implemented.
- Knowledgeable in soil disposal characterization. Supervised the excavation and disposal of soil at a site on Jericho Turnpike in Queens, New York.
- Performed a Phase I ESA site inspection at 88 North 1st Street in Brooklyn, New York. Based upon the results of the Phase I ESA, the proper scope of work for a Phase II ESA was determined and a Phase II ESA scope of work and proposal was prepared.
- Managed a variety of New York City Brownfield Cleanup Projects including the preparation of the Remedial Investigation Work Plans, Remedial Action Work Plans, and implementation of the fieldwork.
- Successfully managed the implementation of Remedial Action Plans during fieldwork.

TECHNICAL RESPONSIBILITIES

- Compile information on properties for Phase I and Phase II Environmental Site Assessments.
- Conduct Phase I and Phase II Environmental Site Assessments.
- Management of site investigations and site supervision.
- Conduct air quality/dust monitoring control.
- File Freedom of Information Act (FOIA) Requests with various agencies to collect further information about the properties in order to assess the environmental quality.
- Create reports to evaluate the potential environmental impacts associated with the Subject Properties.

- Supervise disposal of excavated soil.
- Collect indoor and outdoor air samples, soil vapor samples, and soil probe samples for laboratory analyses.
- Air Quality/Control

EDUCATION

Master of Science Integrated Biology, *Hofstra University*, Hempstead, NY, December 2019
Bachelor of Science Biology, *SUNY University at Albany*, Albany, NY, May 2014

CERTIFICATIONS

OSHA Outreach Certification — September 14, 2020
ASTM Training and E-Learning: Phase I & II ESA Workshop — October 1, 2020

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Mehmet Firat Ataman
Project Manager for Touchstone Environmental Geology, P.G.

RELEVANT PROJECT EXPERIENCE

- Performance of Phase I Environmental Site Assessment (ESA) inspections.
- Performance of Phase II ESA and site investigation fieldwork including the collection of soil, groundwater, vapor samples, indoor/outdoor ambient air samples.
- Installation of monitoring wells and soil vapor/subslab probes.
- Performance of waste characterization studies. Knowledgeable in soil disposal characterization.

TECHNICAL RESPONSIBILITIES

- Compile information on properties for Phase I and Phase II Environmental Site Assessments.
- Conduct Phase I and Phase II Environmental Site Assessments.
- Management of site investigations and site supervision.
- Conduct air quality/dust monitoring control.
- Create reports to evaluate the potential environmental impacts associated with the Subject Properties.
- Supervise disposal of excavated soil.
- Supervise underground storage tank removals.
- Collect indoor and outdoor air samples, soil vapor samples, and soil probe samples for laboratory analyses.
- Air Quality/Control

EDUCATION

Bachelor of Science Computer Science, *SUNY Farmingdale* NY, May 2005

CERTIFICATIONS

OSHA Outreach Certification 08/31/2019
UST A/B Operator

RENEE G. COHEN

2815 Covered Bridge Road
Merrick, NY 11566
516-223-9761 FAX 516-223-0983
rgcs70@aol.com

EXPERIENCE **PREMIER ENVIRONMENTAL SERVICES, Merrick, New York**

Perform organic and inorganic data validation according to the various protocols from the USEPA EPA CLP, NYS ASP and USEPA Test Methods for the Evaluation of Solid Waste, Methods for the Chemical Analysis of Water and Waste and the Federal Register. Use the USEPA National Functional Guidelines for Organic and Inorganic Data Validation (where applicable) as well as State (NYS DEC ASP/DUSR) and EPA Region requirements to report on laboratory data quality and data usability. Review and write Quality Assurance Project Plans using Regional and State guidelines for Remedial Investigations, Ground Water Monitoring programs and Superfund Programs. Review data and work plans as they relate to project data quality objectives. Conducts seminars on client specific topics. Perform on-site laboratory QA/QC audits as required by the client and site-specific work plans. Has performed ASTM Phase 1 Assessments for engineering firms when requested.

ENVIRONMENTAL QUALITY SERVICES, INC., Farmingdale, New York

1/2011-11/11 QA Manager
(30 hrs/wk) Perform the data review and report compilation of organic and inorganic data for report preparation. Review data for compliance with method as well as data quality objectives for specific client work plans. Perform departmental audits in compliance with NELAC and internal lab mandates. Revise laboratory logbooks for bench chemists. Revised/updated laboratory SOP's for method compliance. Participate in on-site audits by both state representatives and commercial clients. Coordinate PT studies for analyte certification for laboratory certifications. Insure analyte certification for client project requirements. Responsible for the review of new and/or updated method and implementation of these methods within the laboratory.

ENVIRONMENTAL TESTING LABORATORIES, Farmingdale, New York

8/2010-1/2011 QA Manager
(25-30 hrs/wk) Perform the data review and report compilation of organic and inorganic data for report preparation. Perform departmental audits in compliance with NELAC and internal lab mandates. Revise laboratory logbooks for bench chemists. Revised/updated laboratory SOP's for method compliance. Participate in on-site audits by both state representatives and commercial clients. Coordinate PT studies for analyte certification for laboratory certifications. Insure analyte certification for client project requirements.

SOUTH MALL ANALYTICAL LABORATORIES, Plainview, New York

10/2004-12/2009 QA Manager (Part Time)
(10 hrs/wk) Responsible for the overall QA program at the laboratory. Revised, updated and prepared SOP's for method compliance. Wrote and prepared the annual updates to laboratory Quality Assurance Manual. Perform audits of laboratory systems and methods. Prepare corrective action reports and follow-up to audit deficiencies. Oversee client and agency on-site audits. Contact with clients to discuss sampling plans, regulations, and required analyses. Perform the data review and report compilation of organic and inorganic data for reporting. Revised all laboratory logbooks and methods to comply with EPA and method guidelines. Handled document control of logbooks, SOP's, QAPP's. Performed annual data integrity and ethics seminars for all employees. Report directly to senior management.

ENVIRONMENTAL TESTING LABORATORIES, Farmingdale, New York

5/2002-10/2003 QA Specialist
(20-24 hrs/wk) Performed the data review and report compilation of organic and inorganic data for report preparation. Performed departmental audits in compliance with NELAC and internal lab mandates. Helped to revise laboratory logbooks for bench chemists. Revised/updated laboratory SOP's for method compliance. Participated in on-site audits by both state representatives and commercial clients.

KEYSPAN LABORATORY SERVICES, Brooklyn, New York

2/1999-5/2002 Consultant
Developed laboratory QAPP (in accordance with NELAC) and Chemical Hygiene Plan. Modified and updated laboratory SOP's. Perform audits in the different work areas. Maintained the NYS DOH proficiency program for analytes of interest. Review data for completeness and QC criteria. Implemented client inquiry system. Performed QC training and method training for bench and field chemists. Developed protocols and documentation for field PCB wipe sampling. Responsible for update/maintenance of laboratory state certifications and approvals.

NYTEST ENVIRONMENTAL INC., Port Washington, New York

1994-1998 Quality Assurance Officer
Responsible for the overall quality program at the laboratory. This included the auditing test methods, systems and data reporting. Performed the review of 10% of all data reports prior to submission to client. Oversaw the training program of new employees. Maintain the documentation of the training records. Review and maintain state certification paperwork and SOP files. Update and file annual MDL datum. Worked with sales and customer service to ensure that client needs are met. Respond to client data inquires. Work with state and federal auditors for review of laboratory to receive certification. Successfully lead the laboratory to an Army Corp of Engineer validation.

1989-1993 **ENSECO EAST, Somerset, New Jersey**

QA/QC Scientist - Performed organic and inorganic audits of the laboratory. Performed and coordinated corrections and revisions to data reports. Wrote and reviewed laboratory Quality Assurance Project plans (QAPjP's) for client specific projects. Developed and led seminars for both client and employees on a number of topics including; data quality objectives, data review vs. data validation and laboratory QC. Interacted with clients, project managers and state personnel for regulatory concerns and data/lab issues. Performed lab audits for method compliance and project specific requirements. Acted as the Technical Representative for Ensecos EPA 3/90 Organic CLP Contract.

1988-1989 **INTECH BIOLABS, East Brunswick, New Jersey**

QA/QC Manager - Responsible for the review of all organic and inorganic data. Performed general laboratory and safety audits. Recorded and charted all QA/QC data. Reviewed and assembled all CLP organic data reports.

1986-1988 **INTERNATIONAL TECHNOLOGIES CORPORATION, Edison, New Jersey**

Central Laboratory Chemist - REAC and EERU Contract for the Emergency Response Branch (ERB) of the USEPA. Responsible for the organic and inorganic extraction of environmental samples according to EPA Methods. This included both metals digestion as well as organic extraction's for semivolatiles, pesticides and PCB's. Performed Volatile Organic analyses using Gas Chromatography, Total Petroleum Hydrocarbon Analysis by IR, Metal Analyses by both Graphite Furnace AA and ICP. Field experience included s on site analyses for both metals and GC volatiles.

1985-1986 **U.S. TESTING COMPANY, Hoboken, New Jersey**

Chemist - Responsible for the digestion and analysis of both soil and aqueous samples for metals according to USEPA CLP and SW 846 protocols. Responsible for the analysis of sample digestates using the Varian Graphite Furnace Atomic Absorption Spectrophotometer and a Jerall Ash ICP-61.

Education

B.S. Environmental Science, December 1984
B.S. Biology, May 1984
Old Dominion University, Norfolk, Virginia

20 hours of Chemistry coursework
Graduate Coursework - Rutgers University, New Brunswick, New Jersey
Long Island University at C.W. Post, Glen Cove, New York

Continuing Education

Good Laboratory Practice (GLP) - June 1992, Center for Professional Development, East Brunswick, New Jersey

40 Hour Course, Region II-Edison, NJ (1987)
24 Hour Refresher Course (1988, 1989, 1991)

References

Available upon request.

ATTACHMENT C
SAMPLING FOR EMERGING CONTAMINANTS

Division of Environmental Remediation - PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonic acids	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluoropentanesulfonic acid	PFPeS	2706-91-4
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorononanesulfonic acid	PFNS	68259-12-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
	Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluoroalkyl carboxylic acids	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUnA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Per- and Polyfluoroether carboxylic acids	Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
	Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
	Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Fluorotelomer sulfonic acids	4:2 Fluorotelomer sulfonic acid	4:2-FTS	757124-72-4
	6:2 Fluorotelomer sulfonic acid	6:2-FTS	27619-97-2
	8:2 Fluorotelomer sulfonic acid	8:2-FTS	39108-34-4
Fluorotelomer carboxylic acids	3:3 Fluorotelomer carboxylic acid	3:3 FTCA	356-02-5
	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	914637-49-3
	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	812-70-4
Perfluorooctane sulfonamides	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-methylperfluorooctane sulfonamide	NMeFOSA	31506-32-8
	N-ethylperfluorooctane sulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids	N-methylperfluorooctane sulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethylperfluorooctane sulfonamidoacetic acid	N-EtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols	N-methylperfluorooctane sulfonamidoethanol	MeFOSE	24448-09-7
	N-ethylperfluorooctane sulfonamidoethanol	EtFOSE	1691-99-2
Ether sulfonic acids	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	9Cl-PF3ONS	756426-58-1
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	11Cl-PF3OUdS	763051-92-9
	Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	113507-82-7

NEW YORK STATE OF OPPORTUNITY.

Department of Environmental Conservation

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Under NYSDEC's Part 375 Remedial Programs

November 2022

www.dec.ny.gov

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ERRATA SHEET for

SAMPLING, ANALYSIS, AND ASSESSMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) Under NYSDEC's Part 375 Remedial Programs Issued January 17, 2020

Citation and Page Number	Current Text	Corrected Text	Date
Title of Appendix I, page 32	Appendix H	Appendix I	2/25/2020
Document Cover, page 1	Guidelines for Sampling and Analysis of PFAS	Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs	9/15/2020
Routine Analysis, page 9	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1 or ISO 25101."	"However, laboratories analyzing environmental samples…PFOA and PFOS in drinking water by EPA Method 537, 537.1, ISO 25101, or Method 533."	9/15/2020
Additional Analysis, page 9, new paragraph regarding soil parameters	None	"In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (EPA Method 9060), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils."	9/15/2020
Data Assessment and Application to Site Cleanup Page 10	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFAS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Target levels for cleanup of PFAS in other media, including biota and sediment, have not yet been established by the DEC.	Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Water Sample Results Page 10	PFAS should be further assessed and considered as a potential contaminant of concern in groundwater or surface water (…) If PFAS are identified as a contaminant of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water (…) If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.	9/15/2020
Soil Sample Results, page 10	"The extent of soil contamination for purposes of delineation and remedy selection should be determined by having certain soil samples tested by Synthetic Precipitation Leaching Procedure (SPLP) and the leachate analyzed for PFAS. Soil exhibiting SPLP results above 70 ppt for either PFOA or PFOS (individually or combined) are to be evaluated during the cleanup phase."	"Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values. " [Interim SCO Table] "PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP. As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf. "	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Testing for Imported Soil Page 11	Soil imported to a site for use in a soil cap, soil cover, or as backfill is to be tested for PFAS in general conformance with DER-10, Section 5.4(e) for the PFAS Analyte List (Appendix F) using the analytical procedures discussed below and the criteria in DER-10 associated with SVOCs. If PFOA or PFOS is detected in any sample at or above 1 µg/kg, then soil should be tested by SPLP and the leachate analyzed for PFAS. If the SPLP results exceed 10 ppt for either PFOA or PFOS (individually) then the source of backfill should be rejected, unless a site-specific exemption is provided by DER. SPLP leachate criteria is based on the Maximum Contaminant Levels proposed for drinking water by New York State's Department of Health, this value may be updated based on future Federal or State promulgated regulatory standards. Remedial parties have the option of analyzing samples concurrently for both PFAS in soil and in the SPLP leachate to minimize project delays. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable. PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.	9/15/2020

Citation and Page Number	Current Text	Corrected Text	Date
Footnotes	None	[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances. [2] The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the soil cleanup objective for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).	9/15/2020
Additional Analysis, page 9	In cases… soil parameters, such as Total Organic Carbon (EPA Method 9060), soil…	In cases… soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil…	1/8/2021
Appendix A, General Guidelines, fourth bullet	List the ELAP-approved lab(s) to be used for analysis of samples	List the ELAP- certified lab(s) to be used for analysis of samples	1/8/2021
Appendix E, Laboratory Analysis and Containers	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by ISO Method 25101.	Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101	1/8/2021
Water Sample Results Page 9	"In addition, further assessment of water may be warranted if either of the following screening levels are met: a. any other individual PFAS (not PFOA or PFOS) is detected in water at or above 100 ng/L; or b. total concentration of PFAS (including PFOA and PFOS) is detected in water at or above 500 ng/L"	Deleted	6/15/2021

Citation and Page Number	Current Text	Corrected Text	Date
Routine Analysis, Page XX	Currently, New York State Department of Health's Environmental Laboratory Approval Program (ELAP)… criteria set forth in the DER's laboratory guidelines for PFAS in non-potable water and solids (Appendix H - Laboratory Guidelines for Analysis of PFAS in Non-Potable Water and Solids).	Deleted	5/31/2022
Analysis and Reporting, Page XX	As of October 2020, the United States Environmental Protection Agency (EPA) does not have a validated method for analysis of PFAS for media commonly analyzed under DER remedial programs (non-potable waters, solids). DER has developed the following guidelines to ensure consistency in analysis and reporting of PFAS.	Deleted	5/31/2022
Routine Analysis, Page XX	LC-MS/MS analysis for PFAS using methodologies based on EPA Method 537.1 is the procedure to use for environmental samples. Isotope dilution techniques should be utilized for the analysis of PFAS in all media.	EPA Method 1633 is the procedure to use for environmental samples.	
Soil Sample Results, Page XX	Soil cleanup objectives for PFOA and PFOS will be proposed in an upcoming revision to 6 NYCRR Part 375-6	Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6	
Appendix A	"Include in the text… LC-MS/MS for PFAS using methodologies based on EPA Method 537.1"	"Include in the text ….EPA Method 1633"	
Appendix A	"Laboratory should have ELAP certification for PFOA and PFOS in drinking water by EPA Method 537, 537.1, EPA Method 533, or ISO 25101"	Deleted	
Appendix B	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	

Citation and Page Number	Current Text	Corrected Text	Date
Appendix C	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix D	"Samples collected using this protocol are intended to be analyzed for PFAS using methodologies based on EPA Method 537.1"	"Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633"	
Appendix G		Updated to include all forty PFAS analytes in EPA Method 533	
Appendix H		Deleted	
Appendix I	Appendix I	Appendix H	
Appendix H	"These guidelines are intended to be used for the validation of PFAS analytical results for projects within the Division of Environmental Remediation (DER) as well as aid in the preparation of a data usability summary report."	"These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER)."	
Appendix H	"The holding time is 14 days…"	"The holding time is 28 days…"	
Appendix H, Initial Calibration	"The initial calibration should contain a minimum of five standards for linear fit…"	"The initial calibration should contain a minimum of six standards for linear fit…"	
Appendix H, Initial Calibration	Linear fit calibration curves should have an R^2 value greater than 0.990.	Deleted	
Appendix H, Initial Calibration Verification	Initial Calibration Verification Section	Deleted	
Appendix H	secondary Ion Monitoring Section	Deleted	
Appendix H	Branched and Linear Isomers Section	Deleted	

Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs

Objective

New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) performs or oversees sampling of environmental media and subsequent analysis of PFAS as part of remedial programs implemented under 6 NYCRR Part 375. To ensure consistency in sampling, analysis, reporting, and assessment of PFAS, DER has developed this document which summarizes currently accepted procedures and updates previous DER technical guidance pertaining to PFAS.

Applicability

All work plans submitted to DEC pursuant to one of the remedial programs under Part 375 shall include PFAS sampling and analysis procedures that conform to the guidelines provided herein.

As part of a site investigation or remedial action compliance program, whenever samples of potentially affected media are collected and analyzed for the standard Target Analyte List/Target Compound List (TAL/TCL), PFAS analysis should also be performed. Potentially affected media can include soil, groundwater, surface water, and sediment. Based upon the potential for biota to be affected, biota sampling and analysis for PFAS may also be warranted as determined pursuant to a Fish and Wildlife Impact Analysis. Soil vapor sampling for PFAS is not required.

Field Sampling Procedures

DER-10 specifies technical guidance applicable to DER's remedial programs. Given the prevalence and use of PFAS, DER has developed "best management practices" specific to sampling for PFAS. As specified in DER-10 Chapter 2, quality assurance procedures are to be submitted with investigation work plans. Typically, these procedures are incorporated into a work plan, or submitted as a stand-alone document (e.g., a Quality Assurance Project Plan). Quality assurance guidelines for PFAS are listed in Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS.

Field sampling for PFAS performed under DER remedial programs should follow the appropriate procedures outlined for soils, sediments, or other solids (Appendix B), non-potable groundwater (Appendix C), surface water (Appendix D), public or private water supply wells (Appendix E), and fish tissue (Appendix F).

QA/QC samples (e.g. duplicates, MS/MSD) should be collected as specified in DER-10, Section 2.3(c). For sampling equipment coming in contact with aqueous samples only, rinsate or equipment blanks should be collected. Equipment blanks should be collected at a minimum frequency of one per day per site or one per twenty samples, whichever is more frequent.

Analysis and Reporting

The investigation work plan should describe analysis and reporting procedures, including laboratory analytical procedures for the methods discussed below. As specified in DER-10 Section 2.2, laboratories should provide a full Category B deliverable. In addition, a Data Usability Summary Report (DUSR) should be prepared by an independent, third party data validator. Electronic data submissions should meet the requirements provided at: https://www.dec.ny.gov/chemical/62440.html.

DER has developed a *PFAS Analyte List* (Appendix G) for remedial programs to understand the nature of contamination at sites. It is expected that reported results for PFAS will include, at a minimum, all the compounds listed. If lab and/or matrix specific issues are encountered for any analytes, the DER project manager, in consultation with the DER chemist, will make case-by-case decisions as to whether certain analytes may be temporarily or permanently discontinued from analysis at each site. As with other contaminants that are analyzed for at a site, the *PFAS Analyte List* may be refined for future sampling events based on investigative findings.

Routine Analysis

EPA Method 1633 is the procedure to use for environmental samples. Reporting limits for PFOA and PFOS in aqueous samples should not exceed 2 ng/L. Reporting limits for PFOA and PFOS in solid samples should not exceed 0.5 µg/kg. Reporting limits for all other PFAS in aqueous and solid media should be as close to these limits as possible. If laboratories indicate that they are not able to achieve these reporting limits for the entire *PFAS Analyte List*, site-specific decisions regarding acceptance of elevated reporting limits for specific PFAS can be made by the DER project manager in consultation with the DER chemist. Data review guidelines were developed by DER to ensure data comparability and usability (Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids).

Additional Analysis

Additional laboratory methods for analysis of PFAS may be warranted at a site, such as the Synthetic Precipitation Leaching Procedure (SPLP) and Total Oxidizable Precursor Assay (TOP Assay).

In cases where site-specific cleanup objectives for PFOA and PFOS are to be assessed, soil parameters, such as Total Organic Carbon (Lloyd Kahn), soil pH (EPA Method 9045), clay content (percent), and cation exchange capacity (EPA Method 9081), should be included in the analysis to help evaluate factors affecting the leachability of PFAS in site soils.

SPLP is a technique used to determine the mobility of chemicals in liquids, soils and wastes, and may be useful in determining the need for addressing PFAS-containing material as part of the remedy. SPLP by EPA Method 1312 should be used unless otherwise specified by the DER project manager in consultation with the DER chemist.

Impacted materials can be made up of PFAS that are not analyzable by routine analytical methodology. A TOP Assay can be utilized to conceptualize the amount and type of oxidizable PFAS which could be liberated in the environment, which approximates the maximum concentration of perfluoroalkyl substances that could be generated if all polyfluoroalkyl substances were oxidized. For example, some polyfluoroalkyl substances may degrade or transform to form perfluoroalkyl substances (such as PFOA or PFOS), resulting in an increase in perfluoroalkyl substance concentrations as contaminated groundwater moves away from a source. The TOP Assay converts, through oxidation, polyfluoroalkyl substances (precursors) into perfluoroalkyl substances that can be detected by routine analytical methodology.[1]

[1] TOP Assay analysis of highly contaminated samples, such as those from an AFFF (aqueous film-forming foam) site, can result in incomplete oxidation of the samples and an underestimation of the total perfluoroalkyl substances.

Commercial laboratories have adopted methods which allow for the quantification of targeted PFAS in air and biota. The EPA's Office of Research and Development (ORD) is currently developing methods which allow for air emissions characterization of PFAS, including both targeted and non-targeted analysis of PFAS. Consult with the DER project manager and the DER chemist for assistance on analyzing biota/tissue and air samples.

Data Assessment and Application to Site Cleanup

Until such time as Ambient Water Quality Standards (AWQS) and Soil Cleanup Objectives (SCOs) for PFOA and PFOS are published, the extent of contaminated media potentially subject to remediation should be determined on a case-by-case basis using the procedures discussed below and the criteria in DER-10. Preliminary target levels for cleanup of PFOA and PFOS in other media, including biota and sediment, have not yet been established by the DEC.

Water Sample Results

PFOA and PFOS should be further assessed and considered as potential contaminants of concern in groundwater or surface water if PFOA or PFOS is detected in any water sample at or above 10 ng/L (ppt) and is determined to be attributable to the site, either by a comparison of upgradient and downgradient levels, or the presence of soil source areas, as defined below.

If PFOA and/or PFOS are identified as contaminants of concern for a site, they should be assessed as part of the remedy selection process in accordance with Part 375 and DER-10.

Soil Sample Results

Soil cleanup objectives for PFOA and PFOS have been proposed in an upcoming revision to 6 NYCRR Part 375-6. Until SCOs are in effect, the following are to be used as guidance values:

Guidance Values for Anticipated Site Use	PFOA (ppb)	PFOS (ppb)
Unrestricted	0.66	0.88
Residential	6.6	8.8
Restricted Residential	33	44
Commercial	500	440
Industrial	600	440
Protection of Groundwater[2]	1.1	3.7

PFOA and PFOS results for soil are to be compared against the guidance values listed above. These guidance values are to be used in determining whether PFOA and PFOS are contaminants of concern for the site and for determining remedial action objectives and cleanup requirements. Site-specific remedial objectives for protection of groundwater can also be presented for evaluation by DEC. Development of site-specific remedial objectives for protection of groundwater will require analysis of additional soil parameters relating to leachability. These additional analyses can include any or all the parameters listed above (soil pH, cation exchange capacity, etc.) and/or use of SPLP.

As the understanding of PFAS transport improves, DEC welcomes proposals for site-specific remedial objectives for protection of groundwater. DEC will expect that those may be dependent on additional factors including soil pH, aqueous pH, % organic carbon, % Sand/Silt/Clay, soil cations: K, Ca, Mg, Na, Fe, Al, cation exchange

[2] The movement of PFAS in the environment is being aggressively researched at this time; that research will eventually result in more accurate models for the behaviors of these chemicals. In the meantime, DEC has calculated the guidance value for the protection of groundwater using the same procedure used for all other chemicals, as described in Section 7.7 of the Technical Support Document (http://www.dec.ny.gov/docs/remediation_hudson_pdf/techsuppdoc.pdf).

capacity, and anion exchange capacity. Site-specific remedial objectives should also consider the dilution attenuation factor (DAF). The NJDEP publication on DAF can be used as a reference: https://www.nj.gov/dep/srp/guidance/rs/daf.pdf.

Testing for Imported Soil

Testing for PFAS should be included any time a full TAL/TCL analyte list is required. Results for PFOA and PFOS should be compared to the applicable guidance values. If PFOA or PFOS is detected in any sample at or above the guidance values then the source of backfill should be rejected, unless a site-specific exemption is provided by DER based on SPLP testing, for example. If the concentrations of PFOA and PFOS in leachate are at or above 10 ppt (the Maximum Contaminant Levels established for drinking water by the New York State Department of Health), then the soil is not acceptable.

PFOA, PFOS and 1,4-dioxane are all considered semi-volatile compounds, so composite samples are appropriate for these compounds when sampling in accordance with DER-10, Table 5.4(e)10. Category B deliverables should be submitted for backfill samples, though a DUSR is not required.

Appendix A - Quality Assurance Project Plan (QAPP) Guidelines for PFAS

The following guidelines (general and PFAS-specific) can be used to assist with the development of a QAPP for projects within DER involving sampling and analysis of PFAS.

General Guidelines in Accordance with DER-10

- Document/work plan section title – Quality Assurance Project Plan
- Summarize project scope, goals, and objectives
- Provide project organization including names and resumes of the project manager, Quality Assurance Officer (QAO), field staff, and Data Validator
    - The QAO should not have another position on the project, such as project or task manager, that involves project productivity or profitability as a job performance criterion
- List the ELAP certified lab(s) to be used for analysis of samples
- Include a site map showing sample locations
- Provide detailed sampling procedures for each matrix
- Include Data Quality Usability Objectives
- List equipment decontamination procedures
- Include an "Analytical Methods/Quality Assurance Summary Table" specifying:
    - Matrix type
    - Number or frequency of samples to be collected per matrix
    - Number of field and trip blanks per matrix
    - Analytical parameters to be measured per matrix
    - Analytical methods to be used per matrix with minimum reporting limits
    - Number and type of matrix spike and matrix spike duplicate samples to be collected
    - Number and type of duplicate samples to be collected
    - Sample preservation to be used per analytical method and sample matrix
    - Sample container volume and type to be used per analytical method and sample matrix
    - Sample holding time to be used per analytical method and sample matrix
- Specify Category B laboratory data deliverables and preparation of a DUSR

Specific Guidelines for PFAS

- Include in the text that sampling for PFAS will take place
- Include in the text that PFAS will be analyzed by EPA Method 1633
- Include the list of PFAS compounds to be analyzed (*PFAS Analyte List*)
- Include the laboratory SOP for PFAS analysis
- List the minimum method-achievable Reporting Limits for PFAS
    - Reporting Limits should be less than or equal to:
        - Aqueous – 2 ng/L (ppt)
        - Solids – 0.5 µg/kg (ppb)
- Include the laboratory Method Detection Limits for the PFAS compounds to be analyzed
-
- Include detailed sampling procedures
    - Precautions to be taken
    - Pump and equipment types
    - Decontamination procedures
    - Approved materials only to be used
- Specify that regular ice only will be used for sample shipment
- Specify that equipment blanks should be collected at a minimum frequency of 1 per day per site for each matrix

Appendix B - Sampling Protocols for PFAS in Soils, Sediments and Solids

General

The objective of this protocol is to give general guidelines for the collection of soil, sediment and other solid samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Containers

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in to contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel spoon
- stainless steel bowl
- steel hand auger or shovel without any coatings

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Sampling is often conducted in areas where a vegetative turf has been established. In these cases, a pre-cleaned trowel or shovel should be used to carefully remove the turf so that it may be replaced at the conclusion of sampling. Surface soil samples (e.g. 0 to 6 inches below surface) should then be collected using a pre-cleaned, stainless steel spoon. Shallow subsurface soil samples (e.g. 6 to ~36 inches below surface) may be collected by digging a hole using a pre-cleaned hand auger or shovel. When the desired subsurface depth is reached, a pre-cleaned hand auger or spoon shall be used to obtain the sample.

When the sample is obtained, it should be deposited into a stainless steel bowl for mixing prior to filling the sample containers. The soil should be placed directly into the bowl and mixed thoroughly by rolling the material into the middle until the material is homogenized. At this point the material within the bowl can be placed into the laboratory provided container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A soil log or sample log shall document the location of the sample/borehole, depth of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix C - Sampling Protocols for PFAS in Monitoring Wells

General

The objective of this protocol is to give general guidelines for the collection of groundwater samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including plumbers tape and sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel inertia pump with HDPE tubing
- peristaltic pump equipped with HDPE tubing and silicone tubing
- stainless steel bailer with stainless steel ball
- bladder pump (identified as PFAS-free) with HDPE tubing

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Monitoring wells should be purged in accordance with the sampling procedure (standard/volume purge or low flow purge) identified in the site work plan, which will determine the appropriate time to collect the sample. If sampling using standard purge techniques, additional purging may be needed to reduce turbidity levels, so samples contain a limited amount of sediment within the sample containers. Sample containers that contain sediment may cause issues at the laboratory, which may result in elevated reporting limits and other issues during the sample preparation that can compromise data usability. Sampling personnel should don new nitrile gloves prior to sample collection due to the potential to contact PFAS containing items (not related to the sampling equipment) during the purging activities.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Additional equipment blank samples may be collected to assess other equipment that is utilized at the monitoring well
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A purge log shall document the location of the sample, sampling equipment, groundwater parameters, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix D - Sampling Protocols for PFAS in Surface Water

General

The objective of this protocol is to give general guidelines for the collection of surface water samples for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Samples collected using this protocol are intended to be analyzed for PFAS using EPA Method 1633.

The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include: stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials including sample bottle cap liners with a PTFE layer.

A list of acceptable equipment is provided below, but other equipment may be considered appropriate based on sampling conditions.

- stainless steel cup

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Where conditions permit, (e.g. creek or pond) sampling devices (e.g. stainless steel cup) should be rinsed with site medium to be sampled prior to collection of the sample. At this point the sample can be collected and poured into the sample container.

If site conditions permit, samples can be collected directly into the laboratory container.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- Collect one equipment blank per day per site and minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers
- Request appropriate data deliverable (Category B) and an electronic data deliverable

Documentation

A sample log shall document the location of the sample, sampling equipment, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate. Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appropriate rain gear (PVC, polyurethane, or rubber rain gear are acceptable), bug spray, and sunscreen should be used that does not contain PFAS. Well washed cotton coveralls may be used as an alternative to bug spray and/or sunscreen.

PPE that contains PFAS is acceptable when site conditions warrant additional protection for the samplers and no other materials can be used to be protective. Documentation of such use should be provided in the field notes.

Appendix E - Sampling Protocols for PFAS in Private Water Supply Wells

General

The objective of this protocol is to give general guidelines for the collection of water samples from private water supply wells (with a functioning pump) for PFAS analysis. The sampling procedure used should be consistent with Sampling Guidelines and Protocols – Technological Background and Quality Control/Quality Assurance for NYS DEC Spill Response Program – March 1991 (http://www.dec.ny.gov/docs/remediation_hudson_pdf/sgpsect5.pdf), with the following limitations.

Laboratory Analysis and Container

Drinking water samples collected using this protocol are intended to be analyzed for PFAS by EPA Method 537, 537.1, 533, or ISO Method 25101. The preferred material for containers is high density polyethylene (HDPE). Pre-cleaned sample containers, coolers, sample labels, and a chain of custody form will be provided by the laboratory.

Equipment

Acceptable materials for sampling include stainless steel, HDPE, PVC, silicone, acetate, and polypropylene. Additional materials may be acceptable if pre-approved by New York State Department of Environmental Conservation's Division of Environmental Remediation.

No sampling equipment components or sample containers should come in contact with aluminum foil, low density polyethylene, glass, or polytetrafluoroethylene (PTFE, Teflon™) materials (e.g. plumbers tape), including sample bottle cap liners with a PTFE layer.

Equipment Decontamination

Standard two step decontamination using detergent (Alconox is acceptable) and clean, PFAS-free water will be performed for sampling equipment. All sources of water used for equipment decontamination should be verified in advance to be PFAS-free through laboratory analysis or certification.

Sampling Techniques

Locate and assess the pressure tank and determine if any filter units are present within the building. Establish the sample location as close to the well pump as possible, which is typically the spigot at the pressure tank. Ensure sampling equipment is kept clean during sampling as access to the pressure tank spigot, which is likely located close to the ground, may be obstructed and may hinder sample collection.

Prior to sampling, a faucet downstream of the pressure tank (e.g., washroom sink) should be run until the well pump comes on and a decrease in water temperature is noted which indicates that the water is coming from the well. If the homeowner is amenable, staff should run the water longer to purge the well (15+ minutes) to provide a sample representative of the water in the formation rather than standing water in the well and piping system including the pressure tank. At this point a new pair of nitrile gloves should be donned and the sample can be collected from the sample point at the pressure tank.

Sample Identification and Logging

A label shall be attached to each sample container with a unique identification. Each sample shall be included on the chain of custody (COC).

Quality Assurance/Quality Control

- Immediately place samples in a cooler maintained at 4 ± 2º Celsius using ice
- Collect one field duplicate for every sample batch, minimum 1 duplicate per 20 samples. The duplicate shall consist of an additional sample at a given location
- Collect one matrix spike / matrix spike duplicate (MS/MSD) for every sample batch, minimum 1 MS/MSD per 20 samples. The MS/MSD shall consist of an additional two samples at a given location and identified on the COC
- If equipment was used, collect one equipment blank per day per site and a minimum 1 equipment blank per 20 samples. The equipment blank shall test the new and decontaminated sampling equipment utilized to obtain a sample for residual PFAS contamination. This sample is obtained by using laboratory provided PFAS-free water and passing the water over or through the sampling device and into laboratory provided sample containers.
- A field reagent blank (FRB) should be collected at a rate of one per 20 samples. The lab will provide a FRB bottle containing PFAS free water and one empty FRB bottle. In the field, pour the water from the one bottle into the empty FRB bottle and label appropriately.
- Request appropriate data deliverable (Category B) and an electronic data deliverable
- For sampling events where multiple private wells (homes or sites) are to be sampled per day, it is acceptable to collect QC samples at a rate of one per 20 across multiple sites or days.

Documentation

A sample log shall document the location of the private well, sample point location, owner contact information, sampling equipment, purge duration, duplicate sample, visual description of the material, and any other observations or notes determined to be appropriate and available (e.g. well construction, pump type and location, yield, installation date). Additionally, care should be performed to limit contact with PFAS containing materials (e.g. waterproof field books, food packaging) during the sampling process.

Personal Protection Equipment (PPE)

For most sampling Level D PPE is anticipated to be appropriate. The sampler should wear nitrile gloves while conducting field work and handling sample containers.

Field staff shall consider the clothing to be worn during sampling activities. Clothing that contains PTFE material (including GORE-TEX®) or that have been waterproofed with PFAS materials should be avoided. All clothing worn by sampling personnel should have been laundered multiple times.

Appendix F - Sampling Protocols for PFAS in Fish

This appendix contains a copy of the latest guidelines developed by the Division of Fish and Wildlife (DFW) entitled "General Fish Handling Procedures for Contaminant Analysis" (Ver. 8).

Procedure Name: General Fish Handling Procedures for Contaminant Analysis

Number: FW-005

Purpose: This procedure describes data collection, fish processing and delivery of fish collected for contaminant monitoring. It contains the chain of custody and collection record forms that should be used for the collections.

Organization: Environmental Monitoring Section
Bureau of Ecosystem Health
Division of Fish and Wildlife (DFW)
New York State Department of Environmental Conservation (NYSDEC)
625 Broadway
Albany, New York 12233-4756

Version: 8

Previous Version Date: 21 March 2018

Summary of Changes to this Version: Updated bureau name to Bureau of Ecosystem Health. Added direction to list the names of all field crew on the collection record. Minor formatting changes on chain of custody and collection records.

Originator or Revised by: Wayne Richter, Jesse Becker

Date: 26 April 2019

Quality Assurance Officer and Approval Date: Jesse Becker, 26 April 2019

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

GENERAL FISH HANDLING PROCEDURES FOR CONTAMINANT ANALYSES

A. Original copies of all continuity of evidence (i.e., Chain of Custody) and collection record forms must accompany delivery of fish to the lab. A copy shall be directed to the Project Leader or as appropriate, Wayne Richter. All necessary forms will be supplied by the Bureau of Ecosystem Health. Because some samples may be used in legal cases, it is critical that each section is filled out completely. Each Chain of Custody form has three main sections:

   1. The top box is to be filled out **and signed** by the person responsible for the fish collection (e.g., crew leader, field biologist, researcher). This person is responsible for delivery of the samples to DEC facilities or personnel (e.g., regional office or biologist).

   2. The second section is to be filled out **and signed** by the person responsible for the collections while being stored at DEC, before delivery to the analytical lab. This may be the same person as in (1), but it is still required that they complete the section. Also important is the **range of identification numbers** (i.e., tag numbers) included in the sample batch.

   3. Finally, the bottom box is to record any transfers between DEC personnel and facilities. Each subsequent transfer should be **identified, signed, and dated**, until laboratory personnel take possession of the fish.

B. The following data are required on each **Fish Collection Record** form:

   1. Project and Site Name.

   2. DEC Region.

   3. All personnel (and affiliation) involved in the collection.

   4. Method of collection (gill net, hook and line, etc.)

   5. Preservation Method.

C. The following data are to be taken on each fish collected and recorded on the **Fish Collection Record** form:

   1. Tag number - Each specimen is to be individually jaw tagged at time of collection with a unique number. Make sure the tag is turned out so that the number can be read without opening the bag. Use tags in sequential order. For small fish or composite samples place the tag inside the bag with the samples. The Bureau of Ecosystem Health can supply the tags.

   2. Species identification (please be explicit enough to enable assigning genus and species). Group fish by species when processing.

   3. Date collected.

   4. Sample location (waterway and nearest prominent identifiable landmark).

   5. Total length (nearest mm or smallest sub-unit on measuring instrument) and weight (nearest g or

smallest sub-unit of weight on weighing instrument). Take all measures as soon as possible with calibrated, protected instruments (e.g. from wind and upsets) and prior to freezing.

6. Sex - fish may be cut enough to allow sexing or other internal investigation, but do not eviscerate. Make any incision on the right side of the belly flap or exactly down the midline so that a left-side fillet can be removed.

D. General data collection recommendations:

1. It is helpful to use an ID or tag number that will be unique. It is best to use metal striped bass or other uniquely numbered metal tags. If uniquely numbered tags are unavailable, values based on the region, water body and year are likely to be unique: for example, R7CAY11001 for Region 7, Cayuga Lake, 2011, fish 1. If the fish are just numbered 1 through 20, we have to give them new numbers for our database, making it more difficult to trace your fish to their analytical results and creating an additional possibility for errors.

2. Process and record fish of the same species sequentially. Recording mistakes are less likely when all fish from a species are processed together. Starting with the bigger fish species helps avoid missing an individual.

3. If using Bureau of Ecosystem Health supplied tags or other numbered tags, use tags in sequence so that fish are recorded with sequential Tag Numbers. This makes data entry and login at the lab and use of the data in the future easier and reduces keypunch errors.

4. Record length and weight as soon as possible after collection and before freezing. Other data are recorded in the field upon collection. An age determination of each fish is optional, but if done, it is recorded in the appropriate “Age” column.

5. For composite samples of small fish, record the number of fish in the composite in the Remarks column. Record the length and weight of each individual in a composite. All fish in a composite sample should be of the same species and members of a composite should be visually matched for size.

6. Please submit photocopies of topographic maps or good quality navigation charts indicating sampling locations. GPS coordinates can be entered in the Location column of the collection record form in addition to or instead for providing a map. These records are of immense help to us (and hopefully you) in providing documented location records which are not dependent on memory and/or the same collection crew. In addition, they may be helpful for contaminant source trackdown and remediation/control efforts of the Department.

7. When recording data on fish measurements, it will help to ensure correct data recording for the data recorder to call back the numbers to the person making the measurements.

E. Each fish is to be placed in its own individual plastic bag. For small fish to be analyzed as a composite, put all of the fish for one composite in the same bag but use a separate bag for each composite. It is important to individually bag the fish to avoid difficulties or cross contamination when processing the fish for chemical analysis. Be sure to include the fish’s tag number inside the bag, preferably attached to the fish with the tag number turned out so it can be read. Tie or otherwise secure the bag closed. **The Bureau of Ecosystem Health will supply the bags.** If necessary, food grade bags may be procured from a suitable vendor (e.g., grocery store). It is preferable to redundantly label each bag with a manila tag tied between the knot and the body of the bag. This tag should be labeled with the project name, collection location, tag number, collection date, and fish species. If scales are collected, the scale envelope should be labeled with

the same information.

F. Groups of fish, by species, are to be placed in one large plastic bag per sampling location. **The Bureau of Ecosystem Health will supply the larger bags.** Tie or otherwise secure the bag closed. Label the site bag with a manila tag tied between the knot and the body of the bag. The tag should contain: project, collection location, collection date, species and **tag number ranges**. Having this information on the manila tag enables lab staff to know what is in the bag without opening it.

G. Do not eviscerate, fillet or otherwise dissect the fish unless specifically asked to. If evisceration or dissection is specified, the fish must be cut along the exact midline or on the right side so that the left side fillet can be removed intact at the laboratory. If filleting is specified, the procedure for taking a standard fillet (SOP PREPLAB 4) must be followed, including removing scales.

H. Special procedures for PFAS: Unlike legacy contaminants such as PCBs, which are rarely found in day to day life, PFAS are widely used and frequently encountered. Practices that avoid sample contamination are therefore necessary. While no standard practices have been established for fish, procedures for water quality sampling can provide guidance. The following practices should be used for collections when fish are to be analyzed for PFAS:

No materials containing Teflon.
No Post-it notes.
No ice packs; only water ice or dry ice.
Any gloves worn must be powder free nitrile.
No Gore-Tex or similar materials (Gore-Tex is a PFC with PFOA used in its manufacture).
No stain repellent or waterproof treated clothing; these are likely to contain PFCs.
Avoid plastic materials, other than HDPE, including clipboards and waterproof notebooks.
Wash hands after handling any food containers or packages as these may contain PFCs.
Keep pre-wrapped food containers and wrappers isolated from fish handling.
Wear clothing washed at least six times since purchase.
Wear clothing washed without fabric softener.
Staff should avoid cosmetics, moisturizers, hand creams and similar products on the day of sampling as many of these products contain PFCs (Fujii et al. 2013). Sunscreen or insect repellent should not contain ingredients with “fluor” in their name. Apply any sunscreen or insect repellent well downwind from all materials. Hands must be washed after touching any of these products.

I. All fish must be kept at a temperature <45° F (<8° C) immediately following data processing. As soon as possible, freeze at -20° C ± 5° C. Due to occasional freezer failures, daily freezer temperature logs are required. The freezer should be locked or otherwise secured to maintain chain of custody.

J. In most cases, samples should be delivered to the Analytical Services Unit at the Hale Creek field station. Coordinate delivery with field station staff and send copies of the collection records, continuity of evidence forms and freezer temperature logs to the field station. For samples to be analyzed elsewhere, non-routine collections or other questions, contact Wayne Richter, Bureau of Ecosystem Health, NYSDEC, 625 Broadway, Albany, New York 12233-4756, 518-402-8974, or the project leader about sample transfer. Samples will then be directed to the analytical facility and personnel noted on specific project descriptions.

K. A recommended equipment list is at the end of this document.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF FISH AND WILDLIFE
FISH COLLECTION RECORD

Project and Site Name _____ DEC Region _____

Collections made by (include all crew) _____

Sampling Method: □Electrofishing □Gill netting □Trap netting □Trawling □Seining □Angling □Other _____

Preservation Method: □Freezing □Other _____ Notes (SWFDB survey number): _____

FOR LAB USE ONLY- LAB ENTRY NO.	COLLECTION OR TAG NO.	SPECIES	DATE TAKEN	LOCATION	AGE	SEX &/OR REPROD. CONDIT	LENGTH ( )	WEIGHT ( )	REMARKS

richter: revised 2011, 5/7/15, 10/4/16, 3/20/17; becker: 3/23/17, 4/26/19

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CHAIN OF CUSTODY

I, _____, of _____ collected the
(Print Name) (Print Business Address)

following on _____, 20____ from _____
(Date) (Water Body)

in the vicinity of _____
(Landmark, Village, Road, etc.)

Town of _____, in _____ County.

Item(s) _____

_____

Said sample(s) were in my possession and handled according to standard procedures provided to me prior to collection. The sample(s) were placed in the custody of a representative of the New York State Department of Environmental Conservation on _____, 20_____.

_____ _____
Signature Date

I, _____, received the above mentioned sample(s) on the date specified and assigned identification number(s) _____ to the sample(s). I have recorded pertinent data for the sample(s) on the attached collection records. The sample(s) remained in my custody until subsequently transferred, prepared or shipped at times and on dates as attested to below.

_____ _____
Signature Date

SECOND RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
THIRD RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
FOURTH RECIPIENT (Print Name)	TIME & DATE	PURPOSE OF TRANSFER
SIGNATURE	UNIT	
RECEIVED IN LABORATORY BY (Print Name)	TIME & DATE	REMARKS
SIGNATURE	UNIT	
LOGGED IN BY (Print Name)	TIME & DATE	ACCESSION NUMBERS
SIGNATURE	UNIT	

richter: revised 21 April 2014; becker: 23 March 2017, 26 April, 2019

NOTICE OF WARRANTY

By signature to the chain of custody (reverse), the signatory warrants that the information provided is truthful and accurate to the best of his/her ability. The signatory affirms that he/she is willing to testify to those facts provided and the circumstances surrounding the same. Nothing in this warranty or chain of custody negates responsibility nor liability of the signatories for the truthfulness and accuracy of the statements provided.

HANDLING INSTRUCTIONS

On day of collection, collector(s) name(s), address(es), date, geographic location of capture (attach a copy of topographic map or navigation chart), species, number kept of each species, and description of capture vicinity (proper noun, if possible) along with name of Town and County must be indicated on reverse.

Retain organisms in manila tagged plastic bags to avoid mixing capture locations. Note appropriate information on each bag tag.

Keep samples as cool as possible. Put on ice if fish cannot be frozen within 12 hours. If fish are held more than 24 hours without freezing, they will not be retained or analyzed.

Initial recipient (either DEC or designated agent) of samples from collector(s) is responsible for obtaining and recording information on the collection record forms which will accompany the chain of custody. This person will seal the container using packing tape and writing his signature, the time and the date across the tape onto the container with indelible marker. Any time a seal is broken, for whatever purpose, the incident must be recorded on the Chain of Custody (reason, time, and date) in the purpose of transfer block. Container then is resealed using new tape and rewriting signature, with time and date.

EQUIPMENT LIST

Scale or balance of appropriate capacity for the fish to be collected.

Fish measuring board.

Plastic bags of an appropriate size for the fish to be collected and for site bags.

Individually numbered metal tags for fish.

Manila tags to label bags.

Small envelops, approximately 2” x 3.5”, if fish scales are to be collected.

Knife for removing scales.

Chain of custody and fish collection forms.

Clipboard.

Pens or markers.

Paper towels.

Dish soap and brush.

Bucket.

Cooler.

Ice.

Duct tape.

Appendix G – PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonic acids	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluoropentanesulfonic acid	PFPeS	2706-91-4
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorononanesulfonic acid	PFNS	68259-12-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
	Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluoroalkyl carboxylic acids	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUnA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Per- and Polyfluoroether carboxylic acids	Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
	Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
	Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Fluorotelomer sulfonic acids	4:2 Fluorotelomer sulfonic acid	4:2-FTS	757124-72-4
	6:2 Fluorotelomer sulfonic acid	6:2-FTS	27619-97-2
	8:2 Fluorotelomer sulfonic acid	8:2-FTS	39108-34-4
Fluorotelomer carboxylic acids	3:3 Fluorotelomer carboxylic acid	3:3 FTCA	356-02-5
	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	914637-49-3
	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	812-70-4
Perfluorooctane sulfonamides	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-methylperfluorooctane sulfonamide	NMeFOSA	31506-32-8
	N-ethylperfluorooctane sulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids	N-methylperfluorooctane sulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethylperfluorooctane sulfonamidoacetic acid	N-EtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols	N-methylperfluorooctane sulfonamidoethanol	MeFOSE	24448-09-7
	N-ethylperfluorooctane sulfonamidoethanol	EtFOSE	1691-99-2

Group	Chemical Name	Abbreviation	CAS Number
Ether sulfonic acids	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	9Cl-PF3ONS	756426-58-1
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	11Cl-PF3OUdS	763051-92-9
	Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	113507-82-7

Appendix H - Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids

General

These guidelines are intended to be used for the validation of PFAS using EPA Method 1633 for projects within the Division of Environmental Remediation (DER). Data reviewers should understand the methodology and techniques utilized in the analysis. Consultation with the end user of the data may be necessary to assist in determining data usability based on the data quality objectives in the Quality Assurance Project Plan. A familiarity with the laboratory's Standard Operating Procedure may also be needed to fully evaluate the data. If you have any questions, please contact DER's Quality Assurance Officer, Dana Barbarossa, at dana.barbarossa@dec.ny.gov.

Preservation and Holding Time

Samples should be preserved with ice to a temperature of less than 6°C upon arrival at the lab. The holding time is 28 days to extraction for aqueous and solid samples. The time from extraction to analysis for aqueous samples is 28 days and 40 days for solids.

Temperature greatly exceeds 6ºC upon arrival at the lab*	Use professional judgement to qualify detects and non-detects as estimated or rejected
Holding time exceeding 28 days to extraction	Use professional judgement to qualify detects and non-detects as estimated or rejected if holding time is grossly exceeded

*Samples that are delivered to the lab immediately after sampling may not meet the thermal preservation guidelines. Samples are considered acceptable if they arrive on ice or an attempt to chill the samples is observed.

Initial Calibration

The initial calibration should contain a minimum of six standards for linear fit and six standards for a quadratic fit. The relative standard deviation (RSD) for a quadratic fit calibration should be less than 20%.

The low-level calibration standard should be within 50% - 150% of the true value, and the mid-level calibration standard within 70% - 130% of the true value.

%RSD >20%	J flag detects and UJ non detects

Continuing Calibration Verification

Continuing calibration verification (CCV) checks should be analyzed at a frequency of one per ten field samples. If CCV recovery is very low, where detection of the analyte could be in question, ensure a low level CCV was analyzed and use to determine data quality.

CCV recovery <70 or >130%	J flag results

Blanks

There should be no detections in the method blanks above the reporting limits. Equipment blanks, field blanks, rinse blanks etc. should be evaluated in the same manner as method blanks. Use the most contaminated blank to evaluate the sample results.

Blank Result	Sample Result	Qualification
Any detection	<Reporting limit	Qualify as ND at reporting limit
Any detection	>Reporting Limit and >10x the blank result	No qualification
>Reporting limit	>Reporting limit and <10x blank result	J+ biased high

Field Duplicates

A blind field duplicate should be collected at rate of one per twenty samples. The relative percent difference (RPD) should be less than 30% for analyte concentrations greater than two times the reporting limit. Use the higher result for final reporting.

RPD >30%	Apply J qualifier to parent sample

Lab Control Spike

Lab control spikes should be analyzed with each extraction batch or one for every twenty samples. In the absence of lab derived criteria, use 70% - 130% recovery criteria to evaluate the data.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects

Matrix Spike/Matrix Spike Duplicate

One matrix spike and matrix spike duplicate should be collected at a rate of one per twenty samples. Use professional judgement to reject results based on out of control MS/MSD recoveries.

Recovery <70% or >130% (lab derived criteria can also be used)	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only
RPD >30%	Apply J qualifier to detects and UJ qualifier to non detects of parent sample only

Extracted Internal Standards (Isotope Dilution Analytes)

Problematic analytes (e.g. PFBA, PFPeA, fluorotelomer sulfonates) can have wider recoveries without qualification. Qualify corresponding native compounds with a J flag if outside of the range.

Recovery <50% or >150%	Apply J qualifier
Recovery <25% or >150% for poor responding analytes	Apply J qualifier
Isotope Dilution Analyte (IDA) Recovery <10%	Reject results

Signal to Noise Ratio

The signal to noise ratio for the quantifier ion should be at least 3:1. If the ratio is less than 3:1, the peak is discernable from the baseline noise and symmetrical, the result can be reported. If the peak appears to be baseline noise and/or the shape is irregular, qualify the result as tentatively identified.

Reporting Limits

If project-specific reporting limits were not met, please indicate that in the report along with the reason (e.g. over dilution, dilution for non-target analytes, high sediment in aqueous samples).

Peak Integrations

Target analyte peaks should be integrated properly and consistently when compared to standards. Ensure branched isomer peaks are included for PFAS where standards are available. Inconsistencies should be brought to the attention of the laboratory or identified in the data review summary report.

ATTACHMENT D
QUALITY ASSURANCE PROJECT PLAN

QUALITY ASSURANCE PROJECT PLAN
100 EAST 149TH STREET SITE
100 East 149th Street, Bronx, New York
Block 2351, Lot 35

APRIL 2023

Prepared on behalf of:

RGDC 149 LLC
214 West 39th Street, Suite 1200
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Attachment 2 York Analytical Laboratories Inc MDLs for 21 PFAS Compounds
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Attachment 4 Laboratory SOPs for PFAS Analysis
Attachment 5 Third-Party Data Validator Credentials
Attachment 6 Field Staff Resumes

1.0 INTRODUCTION

This Quality Assurance Project Plan (QAPP) has been prepared in accordance with DER-10 to detail procedures to be followed during the course of the sampling and analytical portion of the project, as required by the approved work plan.

To ensure the successful completion of the project each individual responsible for a given component of the project must be aware of the quality assurance objectives of his / her particular work and of the overall project. The Touchstone Project Manager, Rachel Ataman will be directly responsible to the client for the overall project conduct and quality assurance/quality control (QA/QC) for the project. The Project Manager will be responsible for overseeing all technical and administrative aspects of the project and for directing QA/QC activities. Ms. Gabrielle Castro will serve as the Quality Assurance Officer (QAO) and in this role may conduct:

- conduct periodic field and sampling audits;
- interface with the analytical laboratory to resolve problems; and
- interface with the data validator and/or the preparer of the DUSR to resolve problems.

Rachel Ataman will serve as the Project Manager and will be responsible for implementation of the Remedial Investigation and coordination with field sampling crews and subcontractors. Reporting directly to the Project Manager will be the Field Operations Officer, Mehmet Firat Ataman; who will serve as the on-Site qualified environmental professional who will record observations, direct the drilling crew and be responsible for the collection and handling of all samples.

1.1 Organization

The Project QA will be maintained under the direction of the Project Manager, in accordance with this QAPP. QC for specific tasks will be the responsibility of the individuals and organizations listed below, under the direction and coordination of the Project Manager.

GENERAL RESPONSIBILITY	SCOPE OF WORK	RESPONSIBILITY OF QUALITY CONTROL
Field Operations	Supervision of Field Crew, sample collection and handling.	Mehmet Firat Ataman
Project Manager	Implementation of the RI according to the RIWP.	Rachel Ataman
Quality Assurance Officer	Interface with laboratory, validator, and field crew to identify / resolve data quality issues.	Gabrielle Castro
Laboratory Analysis	Laboratory Analysis of soil / groundwater samples for PFAS and 1,4-dioxane by NYSDEC ASP methods.	York Analytical Laboratories, Inc.
Data review	Review for completeness and compliance.	Renee G. Cohen, Premier Environmental Services

2.0 QUALITY ASSURANCE PROJECT PLAN OBJECTIVES

2.1 Overview

Overall project goals are defined through the development of Data Quality Objectives (DQOs), which are qualitative and quantitative Statements that specify the quality of the data required to support decisions; DQOs, as described in this section, are based on the end uses of the data as described in the work plan.

In this plan, Quality Assurance and Quality Control are defined as follows:

- Quality Assurance - The overall integrated program for assuring reliability of monitoring andmeasurement data.

- Quality Control - The routine application of procedures for obtaining prescribed standards ofperformance in the monitoring and measurement process.

2.2 QA / QC Requirements for Analytical Laboratory

Samples will be analyzed by a New York State Department of Health (NYSDOH) certified laboratory that is certified in the appropriate categories. Data generated from the laboratory will be used to evaluate contaminants such as chlorinated and other volatile organic compounds (VOCs) in soil, soil gas and groundwater, and 1,4-dioxane and PFAS in soil and groundwater. The QA requirements for all subcontracted analytical laboratory work performed on this project are described below. QA elements to be evaluated include accuracy, precision, sensitivity, representativeness, and completeness. The data generated by the analytical laboratory for this project are required to be sensitive enough to achieve required quantification limits as specified in NYSDEC Analytical Services Protocol (NYSDEC ASP, 11/2022) and useful for comparison with clean-up objectives. The analytical results meeting the required quantification limits will provide data sensitive enough to meet the data quality objectives of this remedial program as described in the work plan. Reporting of the data must be clear, concise, and comprehensive. The QC elements that are important to this project are completeness of field data, sample custody, sample holding times, sample preservation, sample storage, instrument calibration andblank contamination.

2.2.1 Instrument Calibration

Calibration curves will be developed for each of the compounds to be analyzed. Standard concentrations and a blank will be used to produce the initial curves. The development of calibration curves and initial calibration response factors must be consistent with method requirements presentedin the most recent version of NYSDEC ASP 11/2022.

2.2.2 Continuing Instrument Calibration

The initial calibration curve will be verified every 12 hrs by analyzing one calibration standard. The standard concentration will be the midpoint concentration of the initial calibration curve. The calibration check compound must come within 25% relative percent difference (RPD) of the average response factor obtained during initial calibration. If the RPD is greater than 25%, then corrective action must be taken as provided in the specific methodology.

2.2.3 Method Blanks

Method blank or preparation blank is prepared from an analyte free matrix which includes the same reagents, internal standards, and surrogate standards as me related samples. II is carried through the entire sample preparation and analytical procedure. The method blank must contain less than or equalto the CRQL of any single target compound. For non-target peaks in the method blank, the

peak area must be less than 10 percent of the nearest internal standard. The method blank will be used to demonstrate the level of laboratory background and reagent contamination that might result from the analytical process itself.

2.2.4 Equipment / Materials Rinsate Blanks

Equipment / materials rinsate blanks are samples which are obtained by running PFAS free water through or over decontaminated sampling equipment or materials including pump tubing, scoops, augers etc. (bailer, pump, auger, etc.). These samples are used to determine if decontamination procedures are adequate. Equipment / materials rinsate banks will be collected for 1,4-dioxane and PFAS soil and groundwater water samples at a minimum frequency of 1 per day per matrix.

2.2.5 Surrogate Spike Analysis

For organic analyses, all samples and blanks will be spiked with surrogate compounds before purging or extraction in order to monitor preparation and analyses of samples. Surrogate spike recoveries shall fall within the advisory limits in accordance with the NYSDEC ASP protocols for samples falling within the quantification limits without dilution.

2.2.6 Surrogate Spike Analysis

MS, MSD, and MSB analyses will be performed to evaluate the matrix effect of the sample upon the analytical methodology along with the precision of the instrument by measuring recoveries. The MS / MSD / MSB samples will be analyzed for each group of samples of a similar matrix at a rate of one forevery 20 field samples. The RPD will be calculated from the difference between the MS and MSD. Matrix spike blank analysis will be performed to indicate the appropriateness of the spiking solution(s) used for the MS/MSD.

2.2.7 Sampling Procedures PFAS

Field Sampling Guidelines for PFAS are included in **Attachment 1** and are described below:

The following sample container procedures will be followed:

- All PFAS samples will be collected first on site.
- Groundwater samples will be collected from the monitoring wells utilizing dedicated HDPE tubing which will be replaced with new tubing between each monitoring well.
- All sample containers made of HDPE or polypropylene.
- Caps are unlined and made of HDPE or polypropylene (no Teflon® -lined caps).

The following field clothing and PPE procedures will be followed:

- No clothing or boots containing Gore-Tex®.
- All safety boots made from polyurethane and PVC.
- No materials containing Tyvek®.
- Do not use fabric softener on clothing to be worn in field.
- Do not used cosmetics, moisturizers, hand cream, or other related products the morning of sampling.
- Do not use unauthorized sunscreen or insect repellant.
- Wet weather gear made of polyurethane and PVC only.
- Sampler must use powderless nitrile gloves.

The following field equipment procedures will be followed:

- Must not contain Teflon® (aka PTFE) or LDPE materials.
- All sampling materials must be made from stainless steel, HDPE, acetate, silicon,

or polypropylene.
- No waterproof field books can be used.
- No plastic clipboards, binders, or spiral hard cover notebooks can be used.
- No adhesives (i.e., Post-It® Notes) can be used.
- Sharpies and permanent markers not allowed; regular ball point pens are acceptable.
- Aluminum foil must not be used.
- Keep PFC samples in separate cooler, away from sampling containers that may contain PFAS.
- Coolers filled with regular ice only - Do not use chemical (blue) ice packs or freezer packs.

PFAS Sampling instructions are provided in **Attachment 1**.

2.2.8 Sampling Procedures Soil

A total of 10 soil borings (23SP1 through 23SP10) will be advanced using the Geoprobe™ dual-tube sampling system. The Geoprobe™ uses a direct push hydraulic percussion system to drive and retrieve five-foot core samplers. A track mounted Geoprobe™ model 6720DT or equivalent will be utilized. Soil samples from each of the soil borings will be retrieved using a 1.5-inch diameter, 5-foot-long core sampler with disposable acetate liners and the dual-tube method to preserve sample integrity. A sample location map is provided as **Figure 1**.

Soil samples will be collected in accordance with procedures described below:
- Open the dual tube acetate liner.
- Wear a new pair of powderless nitrile gloves when collecting each discrete soil sample.
- If any of the soil in the sampler appears to be caved or sloughed material from the open boring overlying the sampled interval, remove it from the sampler.
- Record the depth interval and recovery of each soil sample to the nearest one-tenth (0.1) foot.
- Perform soil field screening or logging activities (e.g., PID screening, soil type identification and description) using a representative portion of the soil sample that is not needed for fixed- base laboratory analysis.
- Screening and logging activities may be performed before or after laboratory containers have been filled.
- A grab soil sample for PFAS analysis should be collected using powderless nitrile gloves in two laboratory supplied 250mL plastic containers. PFAS samples are to be immediately placed in a plastic bag in a cooler with water/ice separate from other samples.
- Soil samples for 1,4-dioxane analysis should be collected immediately following PFAS sample collection. Collect the soil samples using powderless nitrile gloves in the laboratory supplied containers.
- Immediately place the labeled and filled laboratory containers in a cooler on ice.
- Complete the chain-of-custody form and applicable boring logs, field forms, logbook, or log sheets.
- Typically, the Geoprobe sampling equipment does not need to be decontaminated between sampling locations because soil cores are collected in disposable acetate liners. However, if gross contamination (e.g., non-aqueous phase liquids) is encountered, the Geoprobe sampling equipment should be decontaminated in accordance with Section 2.2.10 below. When samplingfor emerging contaminants the cutting shoe of the lead rod must be decontaminated.

2.2.9 Sampling Procedures Groundwater

Groundwater samples will be collected from four newly installed monitoring wells through the use of a pump with new HDPE tubing placed down the monitoring wells and any tubing connections using new silicone tubing. All pump tubing is to be replaced with new tubing between each monitoring well. A sample location map is provided as **Figure 1**.

Groundwater samples will be collected in accordance with standard low-flow sampling procedures as follows:

- Record pump make & model on sampling form.
- Wear appropriate health and safety equipment as outlined in the Health and Safety Plan and PFAS sampling procedure documented above.
- Inspect each well for any damage or evidence of tampering and note condition in field logbook.
- Remove the well cap.
- Lay out plastic sheeting and place the monitoring, purging, and sampling equipment on thesheeting.
- To avoid cross-contamination, do not let any downhole equipment touch the ground.
- Measure well headspace with a PID or FID and record the reading in the field logbook.
- A synoptic water level measurement round should be performed (in the shortest possible time) before any purging and sampling activities begin. Measure and record the depth to water using a water level meter or interface probe to the nearest 0.01 ft. Record the measurement in the field logbook. Do not measure the depth to the bottom of the well at this time (to avoid disturbing any sediment that may have accumulated). Obtain depth to bottom information from installation information in the field logbook or soil boring logs.
- Collect samples in order from wells with lowest contaminant concentration to highest concentration.
- Connect the HDPE tubing to the pump and lower the pump into the well to approximately the middle of the screen. The pump should be a minimum of 2 feet above the bottom of the well as this may cause mobilization of any sediment present in the bottom of the well.
- Start the pump at its lowest speed setting and slowly increase the speed until discharge occurs. Check water level. Adjust pump speed until there is little or no water level drawdown (less than 0.3 feet). If the minimal drawdown that can be achieved exceeds 0.3 feet but remains stable, continue purging until indicator field parameters stabilize.
- There should be at least 1 foot of water over the end of the tubing / pump so there is no risk of entrapment of air in the sample. Pumping rates should be reduced to the minimum capabilities of the pump, if needed, to avoid purging the well dry. However, if the recharge rate of the well is very low and the well is purged dry, then wait until the well has recharged to a sufficientlevel and collect the appropriate volume of sample.
- During well purging, monitor indicator field parameters (temperature, specific conductance, and pH) every three to five minutes (or less frequently, if appropriate). Note: during the early phase of purging emphasis should be put on minimizing and stabilizing pumping stress and recording those adjustments. Purging is considered complete, and sampling may begin when all the above indicator field parameters have stabilized. Stabilization is considered to be achieved when three consecutive readings, taken at three (3) to five (5) minute intervals, are within the following limits:
    - specific conductance (3%),
    - temperature (3%),
    - pH (± 0.1 unit)

- If stability is not reached within a reasonable time period purging may be stopped and the sample collected. This should be noted on the sampling log.

- Collect PFAS samples first directly into laboratory supplied containers. PFAS samples are to beplaced in a plastic bag and in a cooler separate from all other samples.
- Label the samples and record them on the chain of custody form. Place immediately into acooler for shipment and maintain at 4°C.
- Remove the tubing from the well. The HDPE tubing must be discarded.

2.2.10 Sampling Procedures Groundwater

Decontamination of non-dedicated sampling equipment will consist of the following:

- Gently tap or scrape to remove adhered soil.
- Rinse with PFAS free water.
- Wash with alconox® detergent solution and scrub (liquinox not suitable for 1,4-Dioxane sampling).
- Rinse with PFAS free water.
- Rinse with PFAS free water.

2.3 Accuracy

Accuracy is defined as the nearness of a real or the mean (x) of a set of results to the true value. Accuracy is assessed by means of reference samples and percent recoveries. Accuracy includes both precision and recovery and is expressed as percent recovery (% REC). The MS sample is used to determine the percent recovery. The matrix spike percent recovery (% REC) is calculated by the following equation:

$$\%REC = \frac{SSR - SR}{SA} \times 100$$

Where:
SSR = spike sample results
SR = sample results
SA = spike added from spiking mix

2.4 Precision

Precision is defined as the measurement of agreement of a set of replicate results among themselves without a Precision is defined as the measurement of agreement of a set of replicate results among themselves without assumption of any prior information as to the true result. Precision is assessed by means of duplicate/replicate sample analyses.

Analytical precision is expressed in terms of RPD. The RPD is calculated using the following formula:

$$RPD = \frac{D^1 - D^2}{(D^1 + D^2)/2} \times 100$$

Where:
RPD = relative percent difference
D^1 = first sample value
D^2 = second sample value (duplicate)

2.5 Sensitivity

The sensitivity objectives for this plan require that data generated by the analytical laboratory achieve quantification levels low enough to meet the required detection limits specified by NYSDEC ASP and to meet all site-specific standards, criteria, and guidance values (SGCs) established for this project.

2.6 Representativeness

Representativeness is a measure of the relationship of an individual sample taken from a particular site to the remainder of that site and the relationship of a small aliquot of the sample (i.e., the one used in the actual analysis) to the sample remaining on site. The representativeness of samples is assured by adherence to sampling procedures described in the Remedial Investigation Work Plan (RIWP).

2.7 Completeness

Completeness is a measure of the quantity of data obtained from a measurement system as compared tothe amount of data expected from the measurement system. Completeness is defined as the percentage of all results that are not affected by failing QC qualifiers and should be between 70 and 100% of all analyses performed. The objective of completeness in laboratory reporting is to provide a thorough data support package. The laboratory data package provides documentation of sample analysis and results in the form of summaries, QC data, and raw analytical data. The laboratory will be required to submit data packages that follow NYSDEC ASP Category B reporting format which, at a minimum, will include the following components:

1. All sample chain-of-custody forms.
2. The case narrative(s) presenting a discussion of any problems and/or procedural changes required during analyses. Also presented in the case narrative are sample summary forms.
3. Documentation demonstrating the laboratory's ability to attain the contract specified detectionlimits for all target analytes in all required matrices.
4. Tabulated target compound results and tentatively identified compounds.
5. Surrogate spike analysis results (organics).
6. Matrix spike/matrix spike duplicate/matrix spike blank results.
7. QC check sample and standard recovery results
8. Blank results (field, trip, and method).
9. Internal standard area and RT summary.

2.8 Laboratory Custody Procedures

The following elements are important for maintaining the field custody of samples:

- Sample identification
- Sample labels
- Custody records
- Shipping records
- Packaging procedures

Sample labels will be attached to all sampling bottles before field activities begin; each label will contain an identifying number. Each number will have a suffix that identifies the site and where the sample was taken. Approximate sampling locations will be marked on a map with a description of the sample location. The number, type of sample, and sample identification will be entered into the field logbook. A chain-of-custody form, initiated at the analytical laboratory will accompany the sample bottles from the laboratory into the field. Upon receipt of the bottles and cooler, the

sampler will sign and date the first received blank space. After each sample is collected and appropriately identified, entries will be made on the chain-of-custody form that will include:

- Site name and address
- Samplers' names and signatures

2.9 Sample Handling and Decontamination Procedures

Collected samples will be appropriately packaged, placed in coolers, and shipped via overnight courier or delivered directly to the analytical laboratory by field personnel. Samples will be containerized in appropriate laboratory provided glassware and shipped in plastic coolers. Samples will be preserved through the use of water ice to maintain a temperature of 4ºC.

Dedicated disposable sampling materials will be used for both soil and groundwater samples (if collected), eliminating the need to prepare field equipment / materials (rinsate) blanks. However, equipment / materials rinsate blanks will be prepared for the Geoprobe cutting shoe and for the polyethylene sample tubing at the rate of 1 sample per matrix per day. No field filtering will be conducted; any required filtration will be completed by the laboratory.

Decontamination of non-dedicated sampling equipment will consist of the following:

- Gently tap or scrape to remove adhered soil;
- Rinse with tap water;
- Wash with alconox® detergent solution and scrub ;
- Rinse with tap water;
- Rinse with distilled or deionized water.

Prepare equipment / material rinsate blanks by pouring distilled or deionized water over decontaminated equipment for soil or through sample tubing for groundwater and collecting the water in laboratory provided containers. Matrix spike and matrix spike duplicates (MS/MSD) will be collected at the rate of one per 20 samples submitted to the laboratory and duplicate samples will be collected at a rate of one per ten samples submitted to the laboratory.

3.0 ANALYTICAL PROCEDURES

3.1 Laboratory Analysis

Preventive Samples will be analyzed by the NYSDOH ELAP laboratory for one or more of the followingparameters: TCL VOCs +TICs in soil/groundwater by USEPA Method 8260C; 1,4-dioxane in soil/groundwater by USEPA Method 8270 SIM mode; LC-MS/MS for Per- and Polyfluoroalkyl Substances (PFAS) compounds in soil and groundwater by USEPA Method 1633; TCL SVOCs +TICs in soil/groundwater by USEPA Method 8270; Target Analyte List (TAL) and TCL Metals 6010 in soil/groundwater; Pesticides / PCBs by USEPA Method 8081/8082 in soil/groundwater and VOCs in airby USEPA Method TO-15 (**Table 2**). If any modifications or additions to the standard procedures are anticipated and if any nonstandard sample preparation or analytical protocol is to be used, the modifications and the nonstandard protocol will be explicitly defined and documented. Prior approval by Touchstone's PM will be necessary for any nonstandard analytical or sample preparation protocol used by the laboratory, i.e., dilution of samples or extracts by greater than a factor of five (5). A table depicting the NYSDEC DER PFAS Analyte List is provided in **Attachment 3**.

If any modifications or additions to the standard procedures are anticipated and if any nonstandard sample preparation or analytical protocol is to be used, the modifications and the nonstandard protocol will be explicitly defined and documented. Prior approval by Touchstone's PM will be necessary for any nonstandard analytical or sample preparation protocol used by the laboratory, i.e., dilution of samplesor extracts by greater than a factor of five (5). Laboratory SOPs for PFA analysis are included in **Attachment 4**.

4.0 DATA REDUCATION, VALIDATION, REVIEW, AND REPORTING

4.1 Overview

The process of data reduction, review, and reporting ensures the assessments, or a conclusion based on the final data accurately reflects actual site conditions. This plan presents the specific procedures, methods, and format that will be employed for data reduction, review and reporting of each measurement parameter determined in the laboratory and field. Also described in this section is the process by which all data, reports, and work plans are proofed and checked for technical and numericalerrors prior to final submission.

4.2 Data Reduction

Standard methods and references will be used as guidelines for data handling, reduction, validation,and reporting. All data for the project will be compiled and summarized with an independent verification at each step in the process to prevent transcription/typographical errors. Any computerizedentry of data will also undergo verification review.

Sample analysis will be provided by a New York State certified environmental laboratory. The ELAP approved laboratory is required to hold ELAP certification for PFOA and PFOS in drinking water by EPA Method 1633 or ISO 25101 for PFAS analysis. Laboratory reports will include ASP category B deliverables for use in the preparation of a data usability summary report (DUSR). All results will be provided in accordance with the NYSDEC Environmental Information Management System (EIMS) electronic data deliverable (EDD) format. Analytical results shall be presented on standard NYSDEC ASP-B forms or equivalents and include the dates the samples were received and analyzed, and the actual methodology used. Note that if waste characterization samples are analyzed they will be in results only format and will not be evaluated in the DUSR.

Laboratory QA/QC information required by the method protocols will be compiled, including the application of data QA/QC qualifiers as appropriate. In addition, laboratory worksheets, laboratory notebooks, chains-of-custody, instrument logs, standards records, calibration records, and maintenance records, as applicable, will be provided in the laboratory data packages to determine the validity of data. Specifics on internal laboratory data reduction protocols are identified in the laboratory's SOPs.

Following receipt of the laboratory analytical results by Touchstone, the data results will be compiled and presented in an appropriate tabular form. Where appropriate, the impacts of QA/QC qualifiers resultingfrom laboratory or external validation reviews will be assessed in terms of data usability. A resume for the proposed data validator is included in **Attachment 5**.

4.3 Laboratory Data Reporting

All sample data packages submitted by the analytical laboratory will be required to be reported in conformance to the NYSDEC ASP (11/2022), Category B data deliverable requirements as applicable tothe method utilized. All results will be provided in accordance with the NYSDEC Environmental Information Management System (EIMS) electronic data deliverable (EDD) format. Note that waste characterization samples, if analyzed, will be in results only format and will not be evaluated in the DUSR. Phoenix Environmental Laboratories, Inc. has confirmed that reporting limits for 1,4-Dioxane in groundwater are at least 0.25 µg/L and 0.1 mg/Kg for soil. The reporting limit for PFAS's is 2 ng/L for aqueous samples (20 ng/L for HFPO-DA) and 1 ng/g (10 ng/g for HFPO-DA) for soil samples. Laboratory MDLs for PFAs in soil and groundwater are included in **Attachment 2**.

5.0 CORRECTIVE ACTION

Review and implementation of systems and procedures may result in recommendations for corrective action. Any deviations from the specified procedures within approved project plans due to unexpected site-specific conditions shall warrant corrective action. All errors, deficiencies, or other problems shallbe brought to the immediate attention of the Touchstone PM, who in turn shall contact the Quality Assurance/Data Quality Manager or his designee (if applicable).

Procedures have been established to ensure that conditions adverse to data quality are promptly investigated, evaluated, and corrected. These procedures for review and implementation of a change areas follows:

- Define the problem.
- Investigate the cause of the problem.
- Develop a corrective action to eliminate the problem, in consultation with the personnelwho defined the problem and who will implement the change.
- Complete the required form describing the change and its rationale (see below for formrequirements).
- Obtain all required written approvals.
- Implement the corrective action.
- Verify that the change has eliminated the problem.

During the field investigation, all changes to the sampling program will be documented in field logs/sheets and the Touchstone PM advised.

If any problems occur with the laboratory or analyses, the laboratory must immediately notify the PM, who will consult with other project staff. All approved corrective actions shall be controlled and documented.

All corrective action documentation shall include an explanation of the problem and a proposed solution which will be maintained in the project file or associated logs. Each report must be approved by the necessary personnel (e.g., the PM) before implementation of the change occurs. The PM shall be responsible for controlling, tracking, implementing, and distributing identified changes.

QAPP
ATTACHMENT 1

Sampling/Preservation Considerations-Based upon EPA 1633 Draft Rev.3, Dec., 2022

Matrix	Sampling Containers/Amounts	QC Containers	Preservation Required-Exclude light)	Holding Times
Soil	1 x 250 mL HDPE-filled ≥1/2 way	Field Blank-PFAS Free water Field Dup if in Work Plan	Maintain 0-6 deg.C during transport to lab Must arrive at lab within 48 hrs of sampling Once at lab maintain at <6deg C-can freeze	If <6 deg C or frozen, 90 days to prep Note: if NFDHA is needed extract ASAP
Non-Potable Water	2 x500 mL HDPE containers 4 x 500 mL HDPE for MS/MSD (2 each)	Field Blank-PFAS Free water 500 mL volume needed	Maintain 0-6 deg.C during transport to lab Must arrive at lab within 48 hrs of sampling Once at lab maintain at <6deg C-can freeze	If frozen, 90 days to prep If ≤6 degC - 28 Days-certain species may degrade* * Perfluorooctanesulfonamide ethanols and Perfluorooctanesulfonamidoacetic acids after 7 days

PFC Sampling – Prohibited and Acceptable Items

Prohibited	Acceptable
Field Equipment	
Teflon® containing materials	High-density polyethylene (HDPE) materials
Low density polyethylene (LDPE) materials	Acetate Liners
	Silicon Tubing
Waterproof field books	Loose paper (non-waterproof)
Plastic clipboards, binders, or spiral hard cover notebooks	Aluminum field clipboards or with Masonite
	Sharpies®, pens
Post-It Notes®	
Chemical (blue) ice packs	Regular ice
Field Clothing and PPE	
New cotton clothing or synthetic water resistant, waterproof, or stain-treated clothing, clothing containing Gore-Tex™	Well-laundered clothing made of natural fibers (preferable cotton)
Clothing laundered using fabric softener	No fabric softener
Boots containing Gore-Tex™	Boots made with polyurethane and PVC
Tyvek®	Cotton clothing
No cosmetics, moisturizers, hand cream, or other related products as part of personal cleaning/showering routine on the morning of sampling	**Sunscreens** - Alba Organics Natural Sunscreen, Yes To Cucumbers, Aubrey Organics, Jason Natural Sun Block, Kiss my face, Baby sunscreens that are "free" or "natural" **Insect Repellents** - Jason Natural Quit Bugging Me, Repel Lemon Eucalyptus Insect repellant, Herbal Armor, California Baby Natural Bug Spray, BabyGanics **Sunscreen and insect repellant** - Avon Skin So Soft Bug Guard Plus – SPF 30 Lotion
Sample Containers	
LDPE or glass containers	HDPE or polypropylene
Teflon-lined caps	Unlined polypropylene caps
Rain Events	
Waterproof or resistant rain gear	Gazebo tent that is only touched or moved prior to and following sampling activities
Equipment Decontamination	
Decon 90®	Alconox® and/or Liquinox®
Water from an on-site well	Potable water from municipal drinking water supply
Food Considerations	
All food and drink, with exceptions noted on right	Bottled water and hydration fluids (i.e, Gatorade® and Powerade®) to be brought and consumed only in the staging areas

QAPP
ATTACHMENT 2

York Analytical Laboratories, Inc. - Stratford

2/6/2023

Analytical Method Information

PFAS Target compounds by LC/MS-MS

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
PFAS, EPA 1633 Target List in Water (EPA 1633 Draft)					Units: **ng/L**			
Preservation: Cool 4°C						**Hold Time to Analysis** 28 days		
Container: 10_250mL Plastic Cool to 4° C		**Amount Required:** 250 mL				**Hold Time to Extr.** 28 days		
11CL-PF3OUdS	1.38	8.00 ng/L		30	25 - 150	30	50 - 150	30
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	2.05	8.00 ng/L		30	25 - 150	35	50 - 150	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1.79	8.00 ng/L		30	25 - 150	30	50 - 150	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1.06	8.00 ng/L		30	25 - 150	35	50 - 150	30
3-Perfluoroheptyl propanoic acid (FHpPA)	9.47	25.0 ng/L		30	25 - 150	30	50 - 150	30
3-Perfluoropentyl propanoic acid (FPePA)	7.33	25.0 ng/L		30	25 - 150	30	50 - 150	30
3-Perfluoropropyl propanoic acid (FPrPA)	2.03	5.00 ng/L		30	25 - 150	30	50 - 150	30
9CL-PF3ONS	0.700	8.00 ng/L		30	25 - 150	30	50 - 150	30
ADONA	0.530	8.00 ng/L		30	25 - 150	30	50 - 150	30
HFPO-DA (Gen-X)	3.23	8.00 ng/L		30	25 - 150	30	50 - 150	30
N-EtFOSA	1.80	2.00 ng/L		30	25 - 150	30	50 - 150	30
N-EtFOSAA	1.03	2.00 ng/L		30	25 - 150	35	50 - 150	30
N-EtFOSE	3.99	20.0 ng/L		30	25 - 150	30	50 - 150	30
N-MeFOSA	1.58	2.00 ng/L		30	25 - 150	30	50 - 150	30
N-MeFOSAA	0.790	2.00 ng/L		30	25 - 150	35	50 - 150	30
N-MeFOSE	3.99	20.0 ng/L		30	25 - 150	30	50 - 150	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.500	4.00 ng/L		30	25 - 150	30	50 - 150	30
Perfluoro-1-decanesulfonic acid (PFDS)	1.32	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.910	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluoro-1-nonanesulfonic acid (PFNS)	0.860	2.00 ng/L		30	25 - 150	30	50 - 150	30
Perfluoro-1-octanesulfonamide (FOSA)	0.880	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluoro-1-pentanesulfonate (PFPeS)	0.760	2.00 ng/L		30	25 - 150	30	50 - 150	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	2.14	4.00 ng/L		30	25 - 150	30	50 - 150	30
Perfluoro-4-oxapentanoic acid (PFMPA)	0.250	4.00 ng/L		30	25 - 150	30	50 - 150	30
Perfluoro-5-oxahexanoic acid (PFMBA)	0.370	4.00 ng/L		30	25 - 150	30	50 - 150	30
Perfluorobutanesulfonic acid (PFBS)	0.470	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorodecanoic acid (PFDA)	0.750	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorododecanesulfonic acid (PFDoS)	0.930	2.00 ng/L		30	25 - 150	30	50 - 150	30
Perfluorododecanoic acid (PFDoA)	0.880	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluoroheptanoic acid (PFHpA)	0.710	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorohexanesulfonic acid (PFHxS)	0.680	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorohexanoic acid (PFHxA)	0.350	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluoro-n-butanoic acid (PFBA)	0.330	8.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorononanoic acid (PFNA)	0.520	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorooctanesulfonic acid (PFOS)	0.820	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorooctanoic acid (PFOA)	0.420	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluoropentanoic acid (PFPeA)	0.230	4.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorotetradecanoic acid (PFTA)	0.690	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluorotridecanoic acid (PFTrDA)	0.740	2.00 ng/L		30	25 - 150	35	50 - 150	30
Perfluoroundecanoic acid (PFUnA)	1.13	2.00 ng/L		30	25 - 150	35	50 - 150	30

York Analytical Laboratories, Inc. - Stratford

2/6/2023

Analytical Method Information

PFAS Target compounds by LC/MS-MS

Analyte	MDL	Reporting Limit	Surrogate %R	Duplicate RPD	Matrix Spike %R	Matrix Spike RPD	Blank Spike / LCS %R	Blank Spike / LCS RPD
PFAS, EPA 1633 Target List in Soil (EPA 1633 Draft)					Units: **ug/kg**			
Preservation: Cool 4°C						**Hold Time to Analysis** 28 days		
Container: 10_250mL Plastic Cool to 4° C		**Amount Required:** 250 mL				**Hold Time to Extr.** 28 days		
11CL-PF3OUdS	0.311	0.800 ug/kg		30	25 - 150	30	50 - 150	30
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.755	0.800 ug/kg		30	25 - 150	35	50 - 150	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.595	0.800 ug/kg		30	25 - 150	30	50 - 150	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.595	0.800 ug/kg		30	25 - 150	35	50 - 150	30
3-Perfluoroheptyl propanoic acid (FHpPA)	1.50	5.00 ug/kg		30	25 - 150	30	50 - 150	30
3-Perfluoropentyl propanoic acid (FPePA)	2.10	5.00 ug/kg		30	25 - 150	30	50 - 150	30
3-Perfluoropropyl propanoic acid (FPrPA)	0.634	1.00 ug/kg		30	25 - 150	30	50 - 150	30
9CL-PF3ONS	0.246	0.800 ug/kg		30	25 - 150	30	50 - 150	30
ADONA	0.174	0.800 ug/kg		30	25 - 150	30	50 - 150	30
HFPO-DA (Gen-X)	0.608	0.800 ug/kg		30	25 - 150	30	50 - 150	30
N-EtFOSA	0.198	0.200 ug/kg		30	25 - 150	30	50 - 150	30
N-EtFOSAA	0.194	0.200 ug/kg		30	25 - 150	35	50 - 150	30
N-EtFOSE	0.697	2.00 ug/kg		30	25 - 150	30	50 - 150	30
N-MeFOSA	0.180	0.200 ug/kg		30	25 - 150	30	50 - 150	30
N-MeFOSAA	0.148	0.200 ug/kg		30	25 - 150	35	50 - 150	30
N-MeFOSE	0.611	2.00 ug/kg		30	25 - 150	30	50 - 150	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.139	0.400 ug/kg		30	25 - 150	30	50 - 150	30
Perfluoro-1-decanesulfonic acid (PFDS)	0.191	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.155	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluoro-1-nonanesulfonic acid (PFNS)	0.124	0.200 ug/kg		30	25 - 150	30	50 - 150	30
Perfluoro-1-octanesulfonamide (FOSA)	0.146	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluoro-1-pentanesulfonate (PFPeS)	0.157	0.200 ug/kg		30	25 - 150	30	50 - 150	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.193	0.400 ug/kg		30	25 - 150	30	50 - 150	30
Perfluoro-4-oxapentanoic acid (PFMPA)	0.0620	0.400 ug/kg		30	25 - 150	30	50 - 150	30
Perfluoro-5-oxahexanoic acid (PFMBA)	0.0960	0.400 ug/kg		30	25 - 150	30	50 - 150	30
Perfluorobutanesulfonic acid (PFBS)	0.111	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorodecanoic acid (PFDA)	0.191	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorododecanesulfonic acid (PFDoS)	0.199	0.200 ug/kg		30	25 - 150	30	50 - 150	30
Perfluorododecanoic acid (PFDoA)	0.163	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluoroheptanoic acid (PFHpA)	0.105	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorohexanesulfonic acid (PFHxS)	0.179	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorohexanoic acid (PFHxA)	0.0530	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluoro-n-butanoic acid (PFBA)	0.109	0.800 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorononanoic acid (PFNA)	0.189	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorooctanesulfonic acid (PFOS)	0.167	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorooctanoic acid (PFOA)	0.172	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluoropentanoic acid (PFPeA)	0.109	0.400 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorotetradecanoic acid (PFTA)	0.103	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluorotridecanoic acid (PFTrDA)	0.125	0.200 ug/kg		30	25 - 150	35	50 - 150	30
Perfluoroundecanoic acid (PFUnA)	0.198	0.200 ug/kg		30	25 - 150	35	50 - 150	30

QAPP
ATTACHMENT 3

Appendix G – PFAS Analyte List

Group	Chemical Name	Abbreviation	CAS Number
Perfluoroalkyl sulfonic acids	Perfluorobutanesulfonic acid	PFBS	375-73-5
	Perfluoropentanesulfonic acid	PFPeS	2706-91-4
	Perfluorohexanesulfonic acid	PFHxS	355-46-4
	Perfluoroheptanesulfonic acid	PFHpS	375-92-8
	Perfluorooctanesulfonic acid	PFOS	1763-23-1
	Perfluorononanesulfonic acid	PFNS	68259-12-1
	Perfluorodecanesulfonic acid	PFDS	335-77-3
	Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Perfluoroalkyl carboxylic acids	Perfluorobutanoic acid	PFBA	375-22-4
	Perfluoropentanoic acid	PFPeA	2706-90-3
	Perfluorohexanoic acid	PFHxA	307-24-4
	Perfluoroheptanoic acid	PFHpA	375-85-9
	Perfluorooctanoic acid	PFOA	335-67-1
	Perfluorononanoic acid	PFNA	375-95-1
	Perfluorodecanoic acid	PFDA	335-76-2
	Perfluoroundecanoic acid	PFUnA	2058-94-8
	Perfluorododecanoic acid	PFDoA	307-55-1
	Perfluorotridecanoic acid	PFTrDA	72629-94-8
	Perfluorotetradecanoic acid	PFTeDA	376-06-7
Per- and Polyfluoroether carboxylic acids	Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
	4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
	Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
	Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
	Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Fluorotelomer sulfonic acids	4:2 Fluorotelomer sulfonic acid	4:2-FTS	757124-72-4
	6:2 Fluorotelomer sulfonic acid	6:2-FTS	27619-97-2
	8:2 Fluorotelomer sulfonic acid	8:2-FTS	39108-34-4
Fluorotelomer carboxylic acids	3:3 Fluorotelomer carboxylic acid	3:3 FTCA	356-02-5
	5:3 Fluorotelomer carboxylic acid	5:3 FTCA	914637-49-3
	7:3 Fluorotelomer carboxylic acid	7:3 FTCA	812-70-4
Perfluorooctane sulfonamides	Perfluorooctane sulfonamide	PFOSA	754-91-6
	N-methylperfluorooctane sulfonamide	NMeFOSA	31506-32-8
	N-ethylperfluorooctane sulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids	N-methylperfluorooctane sulfonamidoacetic acid	N-MeFOSAA	2355-31-9
	N-ethylperfluorooctane sulfonamidoacetic acid	N-EtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols	N-methylperfluorooctane sulfonamidoethanol	MeFOSE	24448-09-7
	N-ethylperfluorooctane sulfonamidoethanol	EtFOSE	1691-99-2

Group	Chemical Name	Abbreviation	CAS Number
Ether sulfonic acids	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major)	9Cl-PF3ONS	756426-58-1
	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor)	11Cl-PF3OUdS	763051-92-9
	Perfluoro(2-ethoxyethane) sulfonic acid	PFEESA	113507-82-7

QAPP
ATTACHMENT 4

Standard Operating Procedure

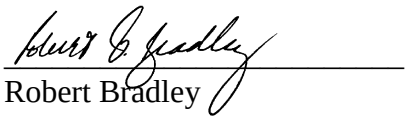
Determination of Target Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous and Solid matrices by Isotope Dilution Analysis by HPLC/MS-MS According to EPA Method 1633 Draft 2

Approvals

Laboratory Director/QA Officer

Krys Trafalski

Vice President/Chief Scientific Officer



Robert Bradley

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1. SCOPE AND APPLICATION

This method is used to identify and quantitate specific PFAS compounds in extracts of non-potable water and solid (soil/sediment) samples using HPLC/MS-MS (high pressure liquid chromatography/tandem mass spectrometry. Currently the compounds (40) that are measured by this methodology are listed in the Table 1.0 below.

Table 1.0-Target PFAS

Perfluoroalkyl carboxylic acids		
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1
Perfluorononanoic acid	PFNA	375-95-1
Perfluorodecanoic acid	PFDA	335-76-2
Perfluoroundecanoic acid	PFUnA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTeDA	376-06-7
Perfluoroalkyl sulfonic acids Acid Form		
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluoropentansulfonic acid	PFPeS	2706-91-4
Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluorooctanesulfonic acid	PFOS	1763-23-1
Perfluorononanesulfonic acid	PFNS	68259-12-1
Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorododecanesulfonic acid	PFDoS	79780-39-5
Fluorotelomer sulfonic acids		
1*H*,1*H*, 2*H*, 2*H*-Perfluorohexane sulfonic acid	4:2FTS	757124-72-4
1*H*,1*H*, 2*H*, 2*H*-Perfluorooctane sulfonic acid	6:2FTS	27619-97-2
1*H*,1*H*, 2*H*, 2*H*-Perfluorodecane sulfonic acid	8:2FTS	39108-34-4
Perfluorooctane sulfonamides		
Perfluorooctanesulfonamide	PFOSA	754-91-6
N-methyl perfluorooctanesulfonamide	NMeFOSA	31506-32-8
N-ethyl perfluorooctanesulfonamide	NEtFOSA	4151-50-2
Perfluorooctane sulfonamidoacetic acids		
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6
Perfluorooctane sulfonamide ethanols		
N-methyl perfluorooctanesulfonamidoethanol	NMeFOSE	24448-09-7
N-ethyl perfluorooctanesulfonamidoethanol	NEtFOSE	1691-99-2
Per- and Polyfluoroether carboxylic acids		
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
4,8-Dioxa-3*H*-perfluorononanoic acid	ADONA	919005-14-4
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
Ether sulfonic acids		
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9Cl-PF3ONS	756426-58-1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11Cl-PF3OUdS	763051-92-9
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7
Fluorotelomer carboxylic acids		
3-Perfluoropropyl propanoic acid	3:3FTCA	356-02-5
2*H*,2*H*,3*H*,3*H*-Perfluorooctanoic acid	5:3FTCA	914637-49-3
3-Perfluoroheptyl propanoic acid	7:3FTCA	812-70-4

The estimated reporting limits (MRL) based upon the preparation/analysis parameters herein at the time of this revision are approximately 2.0-20.0 ng/L (ppt) for aqueous samples and 0.5-5.0 ug/kG for solids . The linear range for these PFAS can be extended by dilution. These MRLs are based upon a volume of 0.250L-0.500L extracted for aqueous samples and 2-5 g. for solids.

This method is "performance-based," which means that modifications may be made without additional EPA review to improve performance (e.g., overcome interferences, or improve the sensitivity, accuracy, or precision of the results) *provided that* all performance criteria in this method are met. Requirements for establishing equivalency are in Section 9.1.2 and include 9.1.2.2c. For CWA uses, additional flexibility is described at 40 CFR 136.6. Changes in performance, sensitivity, selectivity, precision, recovery, etc., that result from modifications within the scope of 40 CFR Part 136.6, and Section 9.0 of this method must be documented, as well as how these modifications compare to the specifications in this method. Changes outside the scope of 40 CFR Part 136.6 and Section 9.0 of this method may require prior review or approval.

2. SUMMARY

Environmental samples are prepared and extracted using method-specific procedures. Sample extracts are subjected to cleanup procedures designed to remove interferences. Analyses of the sample extracts are conducted by LC-MS/MS in the multiple reaction monitoring (MRM) mode. Sample concentrations are determined by isotope dilution or extracted internal standard quantification (see Section 10.3) using isotopically labeled compounds added to the samples before extraction

2.1 Extraction

2.1.1 Aqueous samples are spiked with isotopically labeled standards, extracted using solid-phase extraction (SPE) cartridges and undergo cleanup using carbon before analysis.

2.1.2 Solid samples are spiked with isotopically labeled standards, extracted into basic methanol, and cleaned up by carbon and SPE cartridges before analysis.

2.2 Analysis

2.2.1 Extracts are then analyzed by HPLC-MS/MS in the MRM mode. Extracts contain Non-extracted Internal Standards (NIS) to monitor instrument performance and used for quantitative analysis.

2.2.2 Individual PFAS analytes are identified through peak analysis of the quantification and confirmation ions (Precursor and product ions) where applicable.

2.2.3 The concentration of each analyte is calculated using the isotope dilution technique. This approach corrects the target analytes for surrogate analog recoveries and these surrogates are essentially extracted internal standards (EIS). For QC purposes, the percent recoveries of the isotope dilution analogues are calculated using the integrated peak areas of isotope performance standards, which are added to the final extract and function as traditional internal standards (non-extracted internal standards), exclusively applied to the isotope dilution analogues.

3. DEFINITIONS

3.1 ANALYSIS BATCH – A set of samples that is analyzed on the same instrument during a 24-hour period, including no more than 20 Field Samples, that begins and ends with the analysis of the appropriate Continuing Calibration Check (CCC) standards. Additional CCCs may be required depending on the length of the analysis batch and/or the number of Field Samples.

3.2 CALIBRATION STANDARD (CAL) – A solution of the method analytes, isotope dilution analogues, and isotope performance standards (Internal standards) prepared from the Primary Dilution Standards and stock standards. The calibration standards are used to calibrate the instrument response with respect to analyte concentration.

3.3 CONTINUING CALIBRATION VERIFICATION (CCV) – A calibration standard containing the method analytes, internal standard(s) and surrogate(s). The CCV is analyzed periodically to verify the accuracy of the existing calibration for those analytes.

3.4 EXTRACTION BATCH – A set of up to 20 Field Samples (not including QC Samples) extracted together by the same person(s) during a work day using the same lot of SPE devices, solvents, surrogate, internal standard and fortifying solutions. Required QC samples include Method blank, and Matrix spike/duplicate pair.

3.5 FIELD DUPLICATES – Separate samples collected at the same time and sampling location, shipped and stored under identical conditions. Method precision, including the contribution from sample collection procedures, is estimated from the analysis of Field Duplicates. Field Duplicates are used to prepare matrix spike/matrix spike duplicate QC samples.

3.6 FIELD BLANK (FBLK) – An aliquot of reagent water that is placed in a sample container in the laboratory and treated as a sample in all respects, including shipment to the sampling site, exposure to sampling site conditions, storage, preservation, and all analytical procedures. The purpose of the FBLK is to determine if method analytes or other interferences are introduced into the sample from shipping, storage, and the field environment.

3.7 ISOTOPE DILUTION ANALOGUES - Isotopically labeled analogues of the method analytes that are added to the sample prior to extraction in a known amount. Note: Not all target PFAS currently have an isotopically labeled analogue. In these cases, an alternate isotopically labeled analogue is used as detailed in our SOP and in the reference method.

3.8 ISOTOPE DILUTION TECHNIQUE - An analytical technique for measuring analyte concentration using the ratio of the peak area of the native analyte to that of an isotopically labeled analogue, added to the original sample in a known amount and carried through the entire analytical procedure.

3.9 ISOTOPE PERFORMANCE STANDARDS (Internal Standards) - Quality control compounds that are added to all standard solutions and extracts in a known amount and used to measure the relative response of the isotopically labelled analogues that are components of the same solution. For this method, the isotope performance standards are three isotopically labeled analogues of the method analytes. The isotope performance standards are indicators of instrument performance and are used to calculate the recovery of the isotope dilution analogues through the extraction procedure. In this method, the isotope performance standards are not used in the calculation of the recovery of the native analytes.

3.10 METHOD BLANK – An aliquot of reagent water to which known quantities of the method analytes and isotope dilution analogues are added. The results of the MBLK verify method performance in the absence of sample matrix.

3.11 MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) – Aliquots of field samples that have been fortified with a known concentration of target compounds, prior to sample preparation and extraction, and analyzed to measure the effect of matrix interferences. The use of MS/MSD samples is generally not required in isotope dilution methods because the labeled compounds added to every sample provide more performance data than spiking a single sample in each preparation batch.

3.12 LIMIT OF QUANTITATION (LOQ) – The smallest concentration that produces a quantitative result with known and recorded precision and bias. The LOQ shall be set at or above the concentration of the lowest initial calibration standard (the lowest calibration standard must fall within the linear range). Determined by matrix through the entire preparation and analysis process.

3.13 METHOD DETECTION LIMIT (MDL) – The minimum measured concentration of a substance that can be reported with 99% confidence that the measured analyte concentration is distinguishable from method blank results (40 CFR 136, Appendix B).

3.14 MINIMUM LEVEL OF QUANTITATION (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. It may be equivalent to the concentration of

the lowest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed. Alternatively, the ML may be established by multiplying the MDL (pooled or unpooled, as appropriate) by 3.18 and rounding the result to the number nearest to 1, 2, or 5 x 10n, where n is zero or an integer (see 68 FR 11770).

3.15 PRECURSOR ION – For the purpose of this method, the precursor ion is the deprotonated molecule ($[M-H]^-$) of the method analyte (with the exception of HFPO-DA, in which the precursor ion is formed by decarboxylation). In MS/MS, the precursor ion is mass selected and fragmented by collisionally activated dissociation to produce distinctive product ions of smaller *m/z*.

3.16 PRIMARY DILUTION STANDARD (PDS) SOLUTION – A solution containing the analytes prepared in the laboratory from stock standard solutions and diluted as needed to prepare calibration solutions and other needed analyte solutions.

3.17 PRODUCT ION – For the purpose of this method, a product ion is one of the fragment ions produced in MS/MS by collisionally activated dissociation of the precursor ion.

3.18 INITIAL CALIBRATION VERIFICATION (ICV) – A calibration standard prepared independently from the primary calibration solutions. For this method, the ICV is a repeat of the entire dilution scheme starting with the same stock materials (neat compounds or purchased stock solutions) used to prepare the primary calibration solutions. Independent sources and separate lots of the starting materials are not required, provided the laboratory has obtained the purest form of the starting materials commercially available. The purpose of the ICV is to verify the integrity of the primary calibration standards.

3.19 QUANTITATIVE STANDARD - A quantitative standard of assayed concentration and purity traceable to a Certificate of Analysis.

3.20 STOCK STANDARD SOLUTION - A concentrated solution containing one or more method analytes prepared in the laboratory using assayed reference materials or purchased from a reputable commercial source with a Certificate of Analysis.

3.21 TECHNICAL GRADE STANDARD – As defined for this method, a technical-grade standard includes a mixture of the branched and linear isomers of a method analyte. For the purposes of this method, technical-grade standards are used to identify retention times of branched and linear isomers of method analytes.

3.22 ANALYTE – A PFAS compound included in this method. The analytes are listed in Table 1.

3.23 CALIBRATION STANDARD (CS) – A solution prepared from a secondary standard and/or stock solutions and used to calibrate the response of the LC-MS/MS instrument.

3.24 CONTINUING CALIBRATION VERIFICATION (CCV) STANDARD – The mid-point calibration standard that is used to verify calibration.

3.25 CFR – Code of Federal Regulations

3.26 EXTRACTED INTERNAL STANDARD (EIS) QUANTIFICATION – The response of the target compound is compared to the response of the labeled analog of another compound in the same LOC.

3.27 INSTRUMENT SENSITIVITY CHECK – solution used to check the sensitivity of the instrument. The solution contains the native compounds at the concentration of the LOQ.

3.28 IPR – INITIAL PRECISION AND RECOVERY; four aliquots of a reference matrix spiked with the analytes of interest and labeled compounds and analyzed to establish the ability of the laboratory to generate acceptable precision and recovery. An IPR is performed prior to the first time this method is used and any time the method or instrumentation is modified

3.29 OPR - ONGOING PRECISION AND RECOVERY- – Ongoing precision and recovery standard (OPR); a method blank spiked with known quantities of analytes. The OPR is analyzed exactly like a sample. Its purpose is to assure that the results produced by the laboratory remain within the limits specified in this method for precision and recovery. Applies to OPR and LLOPR (low level OPR at **2x** the LOQ level).

3.30 SPE – SOLID PHASE EXTRACTION; a technique in which an analyte is extracted from an aqueous solution or a solid extract by passage over or through a material capable of reversibly adsorbing the analyte. Also termed liquid-solid extraction.

4. INTERFERENCES

LC-MS/MS data from blanks, samples, and spikes must be evaluated for interferences. If any interferences are present, take corrective action if necessary. Do not use aluminum foil because PFAAs can be potentially transferred from the aluminum foil to the glassware. Only aluminum foil rinsed with LC/MS grade methanol can be used where necessary.

4.1 PFAS have been used in a wide variety of manufacturing processes, and laboratory supplies should be considered potentially contaminated until they have been tested and shown to be otherwise. The materials and supplies used during the method validation process have been tested and shown to be clean. These items are listed in the Reagents section.

4.2 Method interferences may be caused by contaminants in solvents, reagents (including DI water), sample bottles and caps, and other sample processing hardware that lead to discrete artifacts and/or elevated baselines in the chromatograms. All items such as these must be routinely demonstrated to be free from interferences (less than 1/2 the Reporting Limit), under the conditions of the analysis by analyzing Method Blanks. Subtracting blank values from sample results is not permitted.

4.3 PTFE products can be a source of PFAS (PFOA) contamination. The use of PTFE in the procedure should be avoided. Polypropylene (PP) or polyethylene (PE, HDPE) products may be used in place of PTFE products to minimize PFOA contamination.

4.3.1 Standards and samples are injected from polypropylene autosampler vials with polypropylene or polyolefin snap caps, once. Multiple injections may be performed on Primers when conditioning the instrument for analysis.

4.3.2 Random evaporation losses have been observed with the polypropylene caps causing high Internal Std. recovery after the vial was punctured and sample re-injected. For this reason, it is best to inject standards and samples once in the analytical sequence, then recap with polyolefin caps for storage.

4.3.2 Teflon-lined screw caps have detected PFAS at low concentrations. Repeated injection from the same teflon-lined screw cap have detected PFNA at increasing concentration as each repeated injection was performed, therefore, it is best to use polypropylene snap caps.

4.3.3 Aqueous samples should not come in contact with any glass containers or pipettes as PFAS analytes can potentially adsorb to glass surfaces. Standards dissolved in organic solvent may be purchased in glass ampoules. These standards in organic solvent are acceptable and subsequent transfers may be performed using glass syringes and pipets. Following extraction, the eluate must be collected in a polypropylene tube prior to concentration to dryness. Concentration to dryness in glass tubes may cause poor recovery.

4.4 LC/MS grade methanol must be used for all steps where methanol is used in this method. HPLC grade methanol has been demonstrated to be acceptable if tested prior to use.

4.5 Matrix interferences may be caused by contaminants that are co-extracted from the sample. The extent of matrix interferences will vary considerably from source to source, depending upon the nature of the sample.

4.5.1 Co-extracted Organic Material - Under normal LC conditions matrix effects due to co-extracted organic material enhanced the ionization of 4:2 FTS appreciably. Total organic carbon (TOC) is a good indicator of humic content of the sample.

4.5.2 Solid phase extraction cartridges may be a source of interferences. The analysis of field and laboratory reagent blanks can provide important information regarding the presence or absence of such interferences. SPE cartridges should be sealed while in storage to prevent ambient contamination of the SPE sorbent.

4.6 Contamination by carryover can occur whenever a high-concentration and low concentration samples are sequentially analyzed. To reduce carryover, the sample syringe in automatically rinsed with solvent between injections. These operations are programmed into the LC multi-sampler system.

4.7 Volumetric glassware and syringes are difficult to clean after being used for solutions containing high levels of PFOA. These items should be labeled for use only with similarly concentrated solutions or verified clean prior to re-use. To the extent possible, disposable labware is used.

4.8 Both branched and linear PFAS isomers can potentially be found in the environment. Linear and branched isomers are known to exist for PFOS, PFOA, PFHxS, and PFBS, based upon the scientific literature. We have also seen branched isomers for PFHpA, NMeFOSAA, NEtFOSAA and PFNA. If multiple isomers are present for one of these PFAS they likely are adjacent peaks that completely resolve or not, but usually with a deflection point resolved during peak integration. The later of these peaks matches the retention time of its labeled linear analog. In general, earlier peaks are the branched isomers and are not the result of peak splitting.

Currently, all these species are available as linear isomers. Some available branched and linear reference standards of the technical mixtures for these specific PFAS are used to ensure that all appropriate peaks are included during peak integration. These species currently include PFOA, PFHxS, NMeFOSAA, and NEtFOSAA. These branched isomers elute before the linear isomer and are integrated and reported as total for those species. Others are also included at this time such as those listed in section 7.3.4.

4.9 In an attempt to reduce PFOS bias, it is required that *m/z* 499>80 transition be used as the quantitation transition.

5. SAMPLE HANDLING

5.1 **Aqueous Samples** - samples are collected by our clients in 250 or 500ml HDPE bottles with unlined HDPE or polypropylene caps and filled to the neck. Each sample submitted should be submitted in triplicate-with one used for determination of Suspended solids and possible pre-screening. Sub-sampling should be avoided whenever possible. When historical data are available indicating high levels of PFAS, sub-sampling may be an advisable option.

5.2 **Soil Samples** – samples are collected in wide mouth 125 or 250 mL HDPE bottles with PP unlined caps.

5.3 SAMPLE SHIPMENT AND STORAGE/HOLDING TIMES – Maintain all aqueous samples protected from light at 0 - 6 ºC from the time of collection until shipped to the laboratory. Samples must be shipped as soon as practical with sufficient ice to maintain the sample temperature below 6 ºC during transport. Sample are to be received by the laboratory within 48 hours of collection. The laboratory must confirm that the sample temperature is 0 - 6 ºC upon receipt. Once received by the laboratory, the samples may be stored at ≤ -20 ºC, or at 0 - 6 ºC, until sample preparation. However, the allowable holding time for samples depends on the storage temperature, as described below:

5.3.1 Aqueous samples may be held in the laboratory for up to 90 days from collection, when stored at ≤ -20 ºC and protected from the light. When stored at 0 - 6 ºC and protected from the light, aqueous samples may be held for up to **28 days**, with the caveat that issues were observed with certain perfluorooctane sulfonamide ethanols and perfluorooctane sulfonamidoacetic acids after **7 days**. These issues are more likely to elevate the observed concentrations of other PFAS compounds via the transformation of these precursors if they are present in the sample.

5.3.2 Solid samples (soils and sediments) may be held for up to 90 days, if stored in the dark at either 0 - 6 ºC or ≤ -20 ºC, with the caveat that samples may need to be extracted as soon as possible if NFDHA is an important analyte.

5.4 **SAMPLE EXTRACT HOLDING TIMES** – Store sample extracts in the dark at less than 0 - 4 ºC until analyzed. If stored in the dark at less than 0 - 4 ºC, sample extracts may be stored for up to 90 days, with the caveat that issues were observed for some ether sulfonates after 28 days. These issues may elevate the observed concentrations of the ether sulfonates in the extract over time. Samples may need to be extracted as soon as possible if NFDHA is an important analyte.

6. APPARATUS AND MATERIALS (as listed or demonstrated equivalents)

6.1 250-500 mL polypropylene bottles with polypropylene caps. VWR Scientific or equivalent: Part no. 414004-125, 12 pk. Alternate: White PP unlined lid L238WH and 16oz. clarified PP single wall jar 70-400 neck, item J066-Containers and Packaging.com or equivalent.

6.2 Transport Tube: Virgin Polypropylene, White, Plastic, 10 mL Capacity, 16 mm OD, 93 mm Overall Lg, Self-Standing, 250 PK， Item 710Z420, Gamut.com (Grainger), with PP cap or equivalent.

6.3 Graduated cylinders, 50, 100, 250, 500 and 1000mL, Polypropylene, VWR Scientific or equivalent

6.4 Analytical Balance, 0.0001g., checked for accuracy each day of use with Class S weights, certified annually by an outside service

6.5 Extract concentrators: Organomation Model N-EVAP 112, 24 position concentrator with water batch control and nitrogen supply controls or equivalent

6.6 3.1 Micron in-line filters, Promochrom only

6.7 1.0-2.0 mL polypropylene snap cap vials, Agilent part no. 5182-0567 or equivalent

6.8 Snap caps, polypropylene or olefin, 11 mm, 11/9k, Agilent Part no. 5182-0542

6.9 Solid Phase Extraction Tubes: for EPA 1633: WAX (weak anion exchange mixed mode polymeric sorbent – Phenomenex No. 8B-S038-HCH 200 mg or Waters Oasis 150 mg Cat. # 186002493. Must have a pKa > 8 to remain positively charged during the extraction. Alternate is Agilent Bond Elute WAX 200 mg-cat. No. 5610-2151

6.10 Syringes, Hamilton or equivalent 5.0 uL, 10 uL 25 uL, 100 uL, 250 uL, 500 uL, teflon free

6.11 Solid Phase Extraction System-automated-Promochrom 8 position autosampler system for 6 mL capacity SPE tubes. System retrofit to remove all PTFE components and replaced with PEEK tubing or PFAS free tubing. Automated bottle rinsing feature required with 3.1 um in line PP filters

6.12 Nitrogen Evaporation System- TurboVap nitrogen evaporation system operated at less than 55C.

6.13 LC/MS-MS system- Agilent 1260 or 1290 HPLC system interfaced to an Agilent 6470A or 6460C Triple Quadrupole system. The instrument control and qualitative/quantitative software is Mass Hunter versions B.8.0 and B.9.0 or later.

6.13.1 HPLC System-Agilent 1260 or 1290 Infinity II

6.13.1.1 The Agilent 1260 or 1290 Infinity II HPLC system is configured with temperature controlled column oven compartment. 4 column configuration, temperature controlled (refrigerated) auto sampler compartments, injection valve, proportioning valves, variable flow controls and variable injection capabilities.

6.13.1.2 The delay column (PFAS and other interference removal) is an Agilent Eclipse Plus C18, 4.6mm x 50 mm, 3.5 um-Part no. 959943-902 or equivalent.

6.13.1.3 The analytical column is a Restek Raptor C18 part no. 9304252 50mm x 2.1 mm ID, 1.8 u particle size or equivalent

6.13.2 Agilent LC/MS-MS- Agilent 6470AAR/6460C

6.14.2.1 Agilent model 6470AAR/6460C triple Quadrupole system with Agilent Jet Stream ESI source. UHP nitrogen is used as cell gas and High purity nitrogen is delivered for the sheath gas from a Peak Scientific nitrogen generator system.

6.14 Vortex Mixer- Benchmark Industries or equivalent

6.15 Variable Speed shaker table, 18” x 12”- Orbital Shaker- Jiangau Tenlin Instr. Co., Ltd., Model no. TLSK-III 20-230 RPM, 0-999 min, or equivalent

6.16 Centrifuge, 50 mL, Premiere Model XC-2450 Series Centrifuge 6 x 50 mL, 3500 RPM max., or equivalent

6.17 Mechanical Pipettors- 10-100 uL; 100-1000 uL; 1000-5000 uL-4 E’S Scientific or equivalent, calibrated quarterly.

6.18 Vortex Mixer- Benchmark Industries or equivalent

6.19 pH paper, short range 6-8 and full range with 0.5 pH readability- VWR Scientific or equivalent

6.20 15 mL PP or HDPE Centrifuge tubes, Corning Part no. 430791

6.21 3 mL Disposable Transfer pipets, PE, VWR part no. 16001-176

6.22 1.0 mL polypropylene snap cap vials, Agilent part no. 5182-0567

6.23 Snap caps, polypropylene, 11 mm, 11/9k, Agilent Part no. 5182-0542

6.24 2mL self standing PP microcentrifuge snap cap tubes, SKS Scientific part no. 0747-17

6.25 Collection tubes, 15 mL graduated PP or HDPE Centrifuge tubes, Corning Part no. 430791
6.26 Disposable 10 mg scoops, PP
6.27 Ultrasonic mixer
6.28 10 mL disposable syringes, PP or HDPE, luer fitting
6.29 13mm or 25 mm 0.2 um Nylon membrane filters, PALL Acrodisc or equivalent

7. REAGENTS AND STANDARDS-as listed or equivalents

7.1 ALL REAGENTS and STANDARDS MUST BE LOGGED INTO THE ELEMENT LIMS SYSTEM. This includes lot numbers, expiration, open and prepared dates, receipt date, Certification/traceability documents from supplier(s) if provided and preparer.

7.2 SOLVENTS and REAGENTS-all as listed or equivalents

7.2.1 Methanol, hypergrade for LC/MS. (Merck) from Sigma Aldrich Part no. 1060354000 or equivalent (HPLC Plus grade is an acceptable alternate)

7.2.2 Water, hypergrade for LC/MS. (Merck) from Sigma Aldrich Part no. 1153334000 or equivalent (HPLC plus grade is an acceptable alternate). Alternatively, York PFAS free water demonstrated ion and PFAS free can be used.

7.2.3 Acetic Acid, glacial. ACS grade or equivalent.

7.2.4 Ammonium Hydroxide, conc. Cert. ACS grade, 28-30% in water, Sigma Aldrich part no.1054231000, or equivalent

7.2.5 Methanolic Potassium Hydroxide (0.05 M) – add 3.3 g of KOH to 1L MeOH

7.2.6 Sodium Hydroxide, pellets, ACS grade- Sigma Aldrich part no. 221465-500G, or equivalent

7.2.7 Potassium Hydroxide, pellets, ACS grade

7.2.8 Ammonium Acetate – ACS grade or better, Ammonium Acetate, HPLC or cert. ACS grade. Sigma Aldrich Part no. 73594-100-G-F or equivalent.

7.2.9 Ammonium Acetate 5 mM for HPLC in aqueous solution: HPLC gradient A-- Weigh 0.3854 g (+ 0.0005) Ammonium Acetate and add to 1 liter hypergrade Water. Mix until dissolved then sonicate for 5 mins. To remove air bubbles. Stability - 2 weeks.

7.2.10 **Methanolic Ammonium Hydroxide 0.3 %** - take 2.5 mL of conc. ammonium hydroxide into 247 mL MeOH (measure the 247 mL in a PP graduated cylinder-they are under QQ1 somewhere). Use a mechanical pipet to add the 2.5 mL (not strictly quantitative FYI)-**Make 4 bottles of this**. *Used for soil extractions*.- 1 month life

7.2.11 **Methanolic Ammonium Hydroxide 1.0 %** - take 8.25 mL of conc. ammonium hydroxide into 242 mL MeOH (measure the 242 mL in a PP graduated cylinder-they are under QQ1 somewhere). Use a mechanical pipet to add the 8.25 mL (not strictly quantitative FYI)- **Make 4 bottles of this** -*used in Promochrom*-1 month life.

7.2.12 **Aqueous Ammonium Hydroxide 3%-** take 24.8 mL of ammonium hydroxide and add to 242 mL PFAS free water. 3 month life- *used for pH adjustment*

7.2.13 **Methanol with 4% water, 1% ammonium hydroxide and 0.625% acetic acid** – add ammonium hydroxide (3.3 mL, 30%), reagent water (1.7 mL) and acetic acid (0.625 mL) to methanol (92 mL), store at room temperature, replace after 1 month. **This solution is used to prepare the instrument blank, calibration stds and is used to dilute the extracts of samples that exceed the calibration range.**

7.2.14 **Formic Acid 0.1M-aqueous** – add 873 uL formic acid into 250 mL PFAS free water- **Make 2 bottles of this-***used to prepare 7 below.* 2 year life

7.2.15 **Formic Acid, 0.3M**-aqueous- add 2.62 mL (2619 uL) into 250 mL PFAS free water- **Make 4 bottles of this** -*used in Promochrom*-2 year life

7.2.16 **Formic Acid methanolic 1:1, 0.1M formic acid**- mix equal volumes of Methanol and 0.1 M formic acid- **Make 4 bottles of this** -*used in Promochrom*-2 year life

7.2.17 **Formic Acid 5% aqueous**- add 12.5 mL Formic acid into 250 mL PFAS free water. *Used for pH adjustment.* 2 year life

7.3 Stock Standards

Stock Standards are purchased in mid to high concentration levels from Wellington Laboratories, Inc. Guelph, ONT, CA. Currently, Wellington is the preferred supplier of these materials. As a second source verification, prepare a mid-level from the stock independently from the preparation used for initial calibration. Document this preparation in Element. See Attachments 1,2, and 3 for detailed information.

7.3.1 Internal Standards (7-Non-Extracted –NIS)) used for the method are MPFOA, MPFOS, M3PFBA, MPFDA, MPFHxA, MPFHxS and MPFNA.

These are purchased at 250 - 1000 ng/mL depending upon the ISTD in a mixture. This mixture is purchased from Wellington Labs in 1.2 mL volumes with the following **part no.: MPFAC-HIF-IS**. Stored at 4C or less unopened this solution has a 5 year life. Once opened, the life is one year from open date.

7.3.2 Isotopic Surrogate Analogs (24 isotopes) are purchased for the method described from Wellington Labs at 250-5000 ng/mL levels, depending upon the isotope. The part no. is **MPFAC-HIF-ES**.

7.3.3 Stock Standard mixtures of both linear and branched isomers of the EPA 1633 - 40 list are purchased from Wellington Labs at varying concentrations in 5 different mixtures under part nos. PFAC-MXJ, PFAS-MXI, PFAC-MXH, PFAC-MXG, PFAC-MXF.

7.3.4 Qualitative branched isomers mix- individual available branched and linear mixes for the following PFAS are used daily to allow for qualitative knowledge of the PFAS branched isomers so they are integrated/included in quantitative analysis: T-PFOA, lp-PFNA, br-FOSA, br-NEtFOSA, br-NMeFOSA, br-NEtFOSE and br-NMeFOSE. These are purchased at 50,000 ng/mL levels from Wellington Labs-the names above are the Catalogue nos. These have a five year life at stock concentrations.

Make a 100 ng/mL Intermediate mix by adding 2.0 uL of the individual stocks up to 1.0 mL with MeOH.

Make a working solution by taking 200 uL of the 100 ng/mL intermediate into 750 uL of cal matrix solution (7.2.13) and add 50 uL of 1:10 EIS mix.

Transfer 300 uL to an autosampler vials, add 3 uL of ISTD working mix, cap, vortex and store until needed. Life is 1 year.

The summary below details the procurement requirements for this method - All from Wellington Laboratories, Inc.:

Description	Part nos.	Comes in
40 Compound Target 1633 list targets	PFAC-MXJ	4 Days – 1.2 mL
	PFAS-MXI	
	PFAC-MXH	
	PFAC-MXG	
	PFAC-MXF	
Isotopic Surrogates-24	MPFAC-HIF-ES	4 Days – 1.2 mL
EPA 1633 - 7 Internal Stds	MPFAC-HIF-IS	4 Days – 1.2 mL

7.4 Preparation of Standards

7.4.1 Preparation of Working Standards and Intermediates from STOCK Materials

All stock standards are prepared by the vendor in methanol containing a bit of sodium hydroxide to prevent losses of target PFAS compounds due to potential esterification in methanolic solution. The stocks come prepared with 4 molar equivalents (a 3x excess) of sodium hydroxide for stocks at the 50 ug/mL levels. This insures their stability with respect to potential loss due to esterification. The basic solution insures that any acidic sites on the glass ampules or acidic impurities in the methanol are neutralized to prevent ester formation and forms the sodium salt of the PFAS to stabilize it.

When preparing any intermediate level standards, the dilution must be prepared in alkaline methanol to prevent the above from occurring.

In order to do this, prepare a 5.0 mM NaOH in Hypergrade Methanol (or LC/MSMS grade) by dissolving 0.02 g. of sodium hydroxide into 100 mL of MeOH. This has a 2 week life.

For intermediate standards that are made to 10 mL final volume, add 100 uL of 5.0 mM NaOH/MeOH as part of the preparation. This results in a final concentration of NaOH at 0.05 mM.

For intermediate standards prepared to a final volume of 1.0 mL. add 10 uL of the 5.0 mM NaOH/MeOH.

For working calibration standards/CCV/SCV made to 500 uL final volume, using the mixture detailed in section 7.1.13 (MeOH/Water/acetic acid/ammonium hydroxide). This approximates the matrix of the final extracts for analysis.

7.4.2 Storage and Handling of Standards

All working standards should be stored at either room temperature or 4C provided the containers are sealed properly.

Stock Standards may be stored at 4-10 deg. C but before using must sit to allow equilibration to room temperature followed by either vigorous vortex mixing or sonication for 3-5 mins.

7.4.3 Detailed Standards Preparation Procedure-EPA 1633

7.4.4 Internal Standards-*See Attachment 1*

Internal Standards are purchased as a **stock mixture** at 250-1000 ng/mL

These as transferred to a snap cap vial that has been pre-rinsed with 5 mM NaOH/MeOH then allowed to dry.

7.4.4.1 Working level of Non-Extracted Internal Standard (NIS) –make a 1:1 dilution of the stock by taking 500 uL of the Stock and adding 500 uL MeOH.

Use as is by adding 3 uL to 300 uL volumes for QC, samples or calibration.

7.4.5 Isotopic Surrogates (Extracted Internal Standards)- *See Attachment 2*

7.4.5.1 Stock Surrogates are purchased as a mixture at 250-5000 ng/mL. These are transferred to a snap cap vial that has been pre-rinsed with 5 mM NaOH/MeOH then allowed to dry.

Option 1- Use Stock as received and add 25 uL to all samples/QC to be extracted

Option 2- Prepare **2** mL of Working EIS by preparing a 1:2 dilution to yield 125-2500 ng/mL for use as follows:
Take 1000 uL of the Surrogate Stock, plus 25 uL of 5 mM NaOH/MeOH and 975 uL MeOH to give 2.0 mL final volume**. 50 uL are added to ALL preparation blanks, samples and QC**. This is sufficient for approx. 40 x 50 uL additions to all blanks, QC and samples.

This corresponds to adding 5 to 100 ng of EIS compounds to the initial samples and QC. The final volume of extractions will typically be 5.0 ml so this yields 1-20 ng/mL of the isotope EISs in the final extract for analysis.

For calibration, the Stock mix at 250-5000 ng/mL is used by adding 100 uL up to 1.0 mL final volume to yield 25/500 ng/mL in each calibration level as directed in the calibration section 7.4.7.1.

7.4.6 Target Analytes- EPA 1633- *See Attachment 3*

The target analytes for this method are purchased commercially from Wellington Labs under the 5 part nos. described in Section 7.3.3 which contains the method target analytes only at varying concentrations. These mixtures are transferred from their glass ampules to snap cap vials that have been pre-rinsed with 5 mM NaOH/MeOH then allowed to dry. Again these are the nominal concentrations and the actual anion concentrations for those present as salts are listed in the documentation and are reflected in both Mass Hunter and Element.

Preparation of a 1.0 mL volume of a 10 x intermediate of each of the 5 mixes for Calibration. Some of the higher levels on the curve use aliquots of the stock as shown in Figure 2.

Scale the volume accordingly if less is desired. Note that the EPA 1633 mixes come 1.2 mL per vial so this recipe may consume one vial quickly.

7.4.6.1 OPR and LLOPR - these are a mid-level blank spike and low level blank spike (at 2x the LOQ). These are prepared as follows from the EPA 1633 Target mixtures (5 components) by taking 200 uL of each STOCK into a snap cap vial giving 1.0 mL final volume.

1. Element ID Y22B199- PFAC-MXF mix 200 uL
2. Element ID Y22B200- PFAC-MXG mix 200 uL
3. Element ID Y22B201- PFAC-MXH mix 200 uL
4. Element ID Y22B204- PFAC-MXI mix 200 uL
5. Element ID Y22B205- PFAC-MXJ mix 200 uL

For OPR (BS) at mid-level add 100 uL to each matrix for the batch OPR and for the **LLOPR add 20 uL** of the spike mix and process through all steps of the specific matrix preparation.

7.4.7 Calibration

Calibration of the LC-MSMS systems is done by an eight level calibration covering the range 0.2 to 1650 ng/mL, nominal. Various PFAS species are present as salts and at differing concentrations and these are reflected in Mass Hunter and Element as their actual concentrations. Six to eight levels are prepared depending upon the analyte. These levels are prepared as directed below using the internal standards, surrogates and target analytes from above.
This is made to a final volume of 1000 uL in the matrix described in section 7.1.13 (MeOH/Water/acetic acid/ammonium hydroxide)

This preparation excludes the ISTD in the initial preparation. After preparation as directed, withdraw 300 uL of each level into a 500 uL PP vial and add 3 uL of ISTD before analysis, cap and vortex to mix.
These are stored at <10C and are stable for 6 months when prepared as directed.

7.4.7.1 Calibration Curve Preparation - Based upon a final volume of 1.0 mL in CAL Matrix Solution*
See Attachment 4 for details.

EPA 1633 Calibration Standard Preparation
Rev 1.,0 10/03/22

For Final volume of 1.0 mL
Recipe uses both a 1:10 intermediate for some levels AND the Stock for other points as indicated
All standards in Stds refrig. Adjacent to QQQ1 N2 generator in box labeled EPA 1633 standards- all are opened, labeled and good to use.

Level	*Stock: Y22B201* **1633 MXH Targets Intermediate @10x *** uL of MXH 10x Interm.	*Stock: Y22B200* **1633 MXG Targets Intermediate at 10x*** ul of MXG interm.	*Stock: Y22B199* **1633 MXF Targets Intermediate at 10x*** ul of MXF interm.	*Stock: Y22B204* **1633 MXI Targets Intermediate at 10x*** ul of MXI interm.	*Stock: Y22B205* **1633 MXJ Targets Intermediate at 10x*** ul of MXJ interm.	*Stock: Y22B198* **1633 EIS isotope Mix Intermediate at 10x** uL of EIS Interm.
1	2	2	4	2	2.5	50
2	5	5	10	5	6.25	50
3	12.5	12.5	25	12.5	15.6	50
4	25	25	50	25	31.3	50
5	50	50	100	50	62.5	50
6	125	125	250	125	15.6 of Stock	50
7	25 of Stock	25 of Stock	50 of Stock	25 of Stock	31.2 of Stock	50
8	62.5 of STOCK	62.5 of STOCK	125 of STOCK	62.5 of STOCK	78.0 of Stock	50

* 100 uL up to 1 mL in MeOH

*CAL MATRIX: Methanol with 4% water, 1% ammonium hydroxide and 0.625% acetic acid – Prepared by adding ammonium hydroxide (3.3 mL, 30%), reagent water (1.7 mL) and acetic acid (0.625 mL) to methanol (92 mL), store at room temperature, replace after 1 month. This solution is used to prepare the instrument blank and is used to dilute the extracts of samples that exceed the calibration range.

Amount of CAL Matrix to make up to 1.0 mL Final volumes:

CAL LEVEL	uL of CAL Matrix
1	937.5
2	918.8
3	871.9
4 *	793.7
5	637.5
6	309.0
7	843.8
8	609.5

INTERNAL STANDARD MIX (non-extracted IS-NIS). Mix 500 uL of STOCK ISTD at 250-1000 ng/mL with 500 uL of Methanol. This results in 125-500 ng/mL Intermediate ISTD. See 7.4.4.1.

Add 3.0 uL to 300 uL of each level 1-8 in a 500 uL PP autosampler vials and cap with polyolefin cap, vortex to mix and run. Add 3 uL to 300 uL of all sample/QC extracts before analysis.

*Level 4 is also used as the CCV for each analysis sequence run initially, then after every 10 samples and at the end of the sequence. Multiple vials should be prepared for this level.

7.4.8 Checking the Efficacy of the Surrogate/Spike Mixes

On a monthly basis the surrogate (EIS) and spike mixes from the vials used for spiking are assayed to ensure stability. These are prepared for the analysis by taking 3.0 uL of the surrogate (EIS) mix and 3 uL of the Spike mix into 294 uL MeOH/Water/Acetic Acid/Ammonium hydroxide from 7.1.13, then add 3 uL of NIS (ISTD). This yields a 1:100 dilution of the EIS and Spike mixes. Use 100 as the dilution factor in the Mass Hunter worklist.

7.4.9 Second Source - Initial Calibration Verification (ICV)

Currently, the EPA method 1633 does not require a second source ICV. Rather, the initial calibration is verified by preparing a Level 5 -5.0 ng/mL (nominal) calibration standard independently from calibration standard preparation. This serves as the ICV.

8. PROCEDURE

8.1 Preventative and Routine Maintenance

HPLC/MS/MS Preventative Maintenance	
As Needed:	**Daily (When in use)**
Change pump seals. Change in-line filters in autosampler (HPLC). Check/replace in-line frit if excessive pressure or poor performance. Replace column if no change following in-line frit change. Clean needle. Replace or clean Capillary Replace fused silica tube in ESI interface. Clean lenses. Clean skimmer. Ballast rough pump 30 minutes. Check Nozzle flow pattern	Check solvent reservoirs for sufficient level of solvent. Verify that pump is primed, operating pulse free. (ripple < 1%) Check needle wash reservoir for sufficient solvent. Verify capillary heater temperature functioning. Verify vaporizer heater temperature. Verify rough pump oil levels. Verify turbo-pump functioning. Verify nitrogen pressure for auxiliary and sheath gasses. Possible Checktune
Semi-Annually	**Annually**
Replace oil mist and odor elements. Replace activated alumina filter if applicable	Vacuum system components including fans and fan covers. Clean/replace fan filters, if applicable.

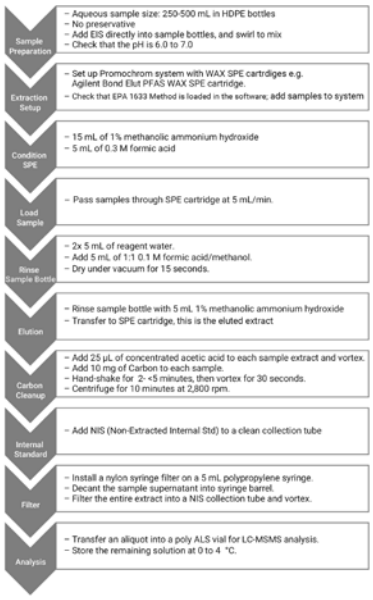
8.2 Sample Preparation (Extraction, Clean-up and Concentration)- Aqueous Matrices

A summary of the steps for the steps related to aqueous samples are shown in Figure 1.0 and in the summary below.

1. Determine % Suspended Solids – 10.0 mLs $\pm$ 0.02 mL through a tared 0.2 um PP filter. Dry filter $\geq$ 12 hours @ 105C, cool in dessicator. Calc % TSS
2. Check pH with short range pH paper to insure pH = 6.5 $\pm$ 0.5. Adjust if necessary with either 5% aqueous formic acid to lower pH or with 3% aqueous ammonium hydroxide to raise pH.
3. Weigh sample bottle as is to $\pm$ 0.1 g.-remove cap first since that will not be weighed later since autosampler caps are used
4. Homogenize sample by inversion 3-4 x-place full volume on Promochrom System using WAX SPE cartridges.

5. Set up MBLK, OPR at 2x LOQ (low LCS) and mid-level OPR (mid-level LCS)-spike with 10 uL of Spike mix for LLOPR and 100 uL of spike mix for mid-OPR.
6. Spike all with 25 uL EIS solution (isotopic surrogates)
7. Follow Promochrom method for EPA 1633
8. Initiate SPE program EPA1633AQ on the Promochrom system
9. Once the program is finished there will be 5 ml in the collection tube. If less, make up to exactly 5.0 mL with MeOH.
10. Remove the sample bottle from the Promochrom system and weigh the empty bottle. That will determine the weight (volume for water) assume 1g. = 1.0 mL. Enter this value into the element bench sheet and the initial volume.
11. Add 25 uL of concentrated acetic acid to each collection tube and vortex to mix.
12. Add 10 mg of activated carbon to all samples and QC. Hand mix and vortex mix for no more than 2 minutes
13. Centrifuge at 2800 rpm for approx. 10 minutes.
14. Filter the final volume through 0.2 um nylon filter using a syringe.
15. If the client provides only 250 mL of sample, in order to meet reporting limits, it may be required to concentrate the unfiltered extract by a factor of at least 2 on a TurboVap at 1.2 Liters/min with nitrogen at <55ºC.. For example if final volume is 5.0 mL, concentrate to 2.0 mL final volume (2.5 x concentration). If 500 ml provided, skip this step.
16. Enter the final volume achieved into the bench sheet in Element.
17. Transfer a portion of the final extract to a 2 mL snap cap, labeled.
18. Take a 300 uL portion of the extract into a 500 uL PP autosampler vial, add 3 uL of NIS (non-extracted internal std.). Cap, vortex, store at <6ºC.
19. Sample is ready for analysis.

Figure 1.0 Aqueous Sample Preparation Steps



8.2.1 To measure sample initial volume for aqueous samples, remove the cap and weight the bottle and record the weight in the sample weight. For MBLK, LLOPR and OPR use 250-500 mL volumes). After SPE processing, be sure the empty bottle is dry and weight to determine the amount of sample in grams (essentially equal to volume in mL). Use that number for the initial volume in Element LIMS.

8.2.2 For every 20 field samples (Field blanks are considered field samples in as they are treated as such), a blank (MBLK), blank spikes, (2 levels-LLOPR and OPR as BS1 and BS2 respectively. A matrix spike is not necessary since isotope dilution is used. If an MS/MSD is required by a specific project, spike 100 uL of the mid-level BS mix (OPR).

8.2.3 All polypropylene equipment including graduated cylinders and sample transfer lines/reservoirs should be washed prior to using with extraction solvent (Methanol).

8.2.4 Add 25 uL of EIS (isotopic surrogates) (250/5000 ng/mL) to each sample and QC sample, recap and invert to mix well.

8.2.5 Add, 5ul (low level spike), 50 uL (mid-level spike)

8.2.6 Using the Promochrom automated system, run a cleaning run. Be sure the reservoirs of LC/MS grade methanol and HPLC plus grade water or equivalent are full. Prime all lines and align all components.

8.2.7. Load in the EPA1633 method and adjust the sample volume to 10 ml more than the highest volume container measured by visual comparison to a calibrated bottle of the same size.

8.2.8 The SPE method solvents for extractions are as follows:

- Solvent 1 = MeOH
- Solvent 2 = H_2O
- Solvent 3 = 0.3 M Formic acid,
- Solvent 4 = 1:1 0.1M Formic Acid/MeOH,
- Solvent 5 = MeOH with 1% ammonium hydroxide ("Basic MeOH")
  W1 = Aqueous waste, W2 = Organic waste

8.2.9 Place labeled 15 mL graduated collection vessels in the sample collection tray and use Element labels to identify the vials at this point. Print 2 sets of labels for each since they will be used after the concentration step as well. These are graduated.

8.2.10 Connect the bottles to the automated system.

8.2.12 Initiate the EPA1633Aq SPE Extraction Program. Each run is approximately 1 hour 45 minutes.

8.2.13 **Evaporation Options**-Aqueous Samples

N-EVAP systems

8.2.13.1 The resulting 5 mL extracts are not further concentrated unless Work Plan reporting limits need to be lower than standard RLs. When this is required by the Work Plan, the extracts and QC are transferred to the N-EVAP concentrator systems operated at 50-55 degrees C (never more than 55C) in their original collection vials. The nitrogen flow is initiated at 1.2 ml/min and adjusted on each individual sample to provide a gentle stream causing a slight disturbance at the surface of the methanol extracts.

8.2.13.2 As this evaporation proceeds the walls of each vessel are rinsed with methanol when the volume is approximately 2.5 mls and then again when the volume is reduced to just below 2.0 mL. Then Bring up the final volume to 2.5 mL. This is a 2x concentration when needed.

8.2.14 Swirl final extract, make up to 2.0 mL with methanol. Using a disposable polypropylene pipet, carefully transfer to a 2 mL PP snap cap vial.

8.2.15 Withdraw an aliquot of 300 uL into a 500 uL autosampler vial (PP) and add 3.0 uL of ISTD (NIS) mix. .

8.2.16 Cap with polyolefin flexible caps and vortex to mix.

8.2.17 Store Extracts at <6^{o}C until analysis.

8.3 Sample Preparation (Extraction, Clean-up and Concentration)- Soil Matrices

1. Determine % solids: use 5 grams; dry at 110C $\geq$ 12 hours.
2. Mix sample with a stainless steel spatula to homogenize-exclude Sticks, vegetation, rocks and the like.
3. Remove 5.0 g. from the homogenized sample container. Add to a tared 50 mL centrifuge tube. Determine the weight $\pm$ 0.01 g.
4. Prepare QC using clean matrix (Ottawa Sand) wetted with 1 mL PFAS free water in 50 mL centrifuge tubes
5. For all samples, QC blanks and LCSs (LLOPR and ML OPR) and a 25 uL aliquot of EIS onto the soil. The current Element standard ID is Y22J305. For the OPRs add appropriate amount of spike solution (10 uL for LLOPR and 100 uL for OPR. The current Element Std ID is Y22J304.
6. Swirl the samples to mix then let sit for 30 minutes.
7. Add 10 mL of 0.3% methanolic ammonium hydroxide to each centrifuge tube.
8. Vortex to mix then shake on the shaker table for 30 minutes.
9. Next, centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes.
10. Transfer the supernatant liquid to a clean 50 mL centrifuge tube
11. Add 15 mL of 0.3% methanolic ammonium hydroxide to each of the original centrifuge tubes.
12. Vortex to mix then shake on the shaker table for 30 minutes
13. Next, centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes.
14. Transfer the supernatant liquid to the centrifuge tubes from 10.0 above
15. Add another 5 mL of 0.3% methanolic ammonium hydroxide to each of the original centrifuge tubes.
16. Vortex to mix then shake on shaker table for 30 minutes
17. Next, centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes.
18. Transfer the supernatant liquid to the centrifuge tubes from 10.0 above
19. Add 10 mg of activated carbon to the combined extract using a 10 mg scoop and hand swirl for 2 minutes (never more than 5 minutes of losses of Target PFAS will occur)
20. Centrifuge at 3500 rpm for 5 minutes or 2800 rpm for 10 minutes
21. Immediately Decant into a 50 mL centrifuge tube.
22. Place in Turbovap or on the N-EVAP system and concentrate at 55 deg. C to a final volume of approx..7 mL at a nitrogen flow of 1.2 ml/min.
23. Add 35-40 mL of PFAS free water to the tube and vortex to mix.
24. Check the pH= 6.5 $\pm$ 0.5 if not adjust accordingly using 5% formic acid to lower pH or 3% aqueous ammonium hydroxide to raise pH rto within this range.

25. Set up the soil EPA 1633 method on the Promochrom be sure volume is set to 50 ml for sample size.
26. Place samples and QC centrifuge tubes on the autosampler
27. Once the program is finished, note the final volume and use that in the Element benchsheet as final volume. Should be 5.0 mL. If less make up to 5.0 mL with MeOH.
28. Add 25 uL of concentrated acetic acid to each collection tube and vortex to mix.
29. Add 10 mg of carbon to all samples and QC and mix for 2 minutes (no more than 5 minutes).
30. Immediately centrifuge at 2800 rpm for 10 minutes.
31. Filter the extract through a 0.2 um nylon membrane using a syringe and filter into a 2 mL snap cap vial.
32. When ready for analysis, remove 300 uL of extract and transfer to a 500 uL autosampler vial. Add 3 uL of NIS (internal standard), vortex to mix. Cap with polyolefin flexible caps and vortex to mix.
33. Store Extracts at <6^{o}C until analysis
34. Samples/QC are now ready for analysis.

8.4 Sample Analysis--Running Samples/QC - Acquisition Method

The acquisition method is detailed in Attachment 4 (HPLC) and Attachment 5 (MS/MS) of this SOP. The method is a HPLC with dynamic MRM method with precursor and product ions with specific acquisition parameters to maximize sensitivity and specificity. This list may be modified to add other PFAS target analytes as necessary.

8.3.1 The triple Quadrupole (QQQ) system must be optimized for each target analyte (including surrogates and internal standards) using the Mass Hunter Optimizer program. This program determines the most abundant precursor and product ions for each compound and their abundances. These data are then used to build an MRM (multiple reaction monitor) method for acquisition. This is done initially or after any major maintenance procedures are performed to the triple quadrupole system. A high level standard is used for this in the $[M-H]^-$ mode or M-COOH for HFPO-DA.

8.3.2 The QQQ is checked for tuning on a weekly basis (if necessary) before analysis using the Tune context by selecting the CHECKTUNE radio button. This is done only in negative ion mode since that what we are operating under. If the Checktune fails, run the Autotune program-note: this takes approx. 45 mins. in negative mode. After autotune or any tuning adjustment, a re-calibration of the instrument is required.

8.3.3 Before any QC or samples can be run, the HPLC must be allowed to purge for at least thirty minutes. This purge must be done using the initial mobile phase conditions used in the method must be allowed to run for 15 minutes or until pressure has stabilized (ripple must be < 1%)

8.3.4 An instrument sequence (Worklist) is then made. It should begin with a blank, a primer (5 ng/mL) followed by a blank with ISTD to establish system cleanliness.

8.3.5 After a successful initial calibration has been completed, the analytical sequence for a batch of samples analyzed during the same time period is as follows. Standards and sample extracts must be brought to room temperature and vortexed prior to aliquoting into an instrument vial in order to ensure homogeneity of the extract.

8.3.6 **Analysis Sequence**

1. Instrument Blank *
2. Instrument Sensitivity Check –**LOQ Standard Level (SEQ-CAL 1) S/N > 3:1**
3. Calibration Verification Standard (CCV)
4. Qualitative Identification Standards –Branched PFAS
   PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE.
5. Instrument Blank (SEQ-CCB)*
6. Method Blank (Batchxxxx-BLK1)
7. Low-level OPR (LLOPR) (Batchxxxx-BS1)
8. OPR (Batchxxxx-BS2)
9. Field Samples (10 or fewer)
10. Calibration Verification Standard (SEQ-CCVn)
11. Instrument Blank (SEQ-CCBn)*
12. Field Samples (10 or fewer)
13. Calibration Verification Standard (SEQ-CCVn)
14. Instrument Blank (SEQ-CCBn)*

* Contains solvent system for calibration, NIS and EIS

8.3.7 The run can end with a script to put the instrument into standby mode.

8.4 Daily Sample Preparation/Analysis Sequence

- Prepare extracts for analysis by placing a 300 ul aliquot of sample extract containing 3 uL of internal standards into a PP auto-sampler vial. Apply Polyolefin cap.
- Confirm that the samples loaded on the auto-sampler were entered correctly in the injection log. Make any necessary corrections.
- Run instrument CCV checks at the RL (0.25-0.5 ng/mL), then at a mid level and high level rotating every ten samples (5, 25 ng/mL) and ending with a mid level CCV.
- Enter the Worklist (injection sequence) into the instrument software and load samples onto the auto-sampler in the order shown above in Section 8.3.6

8.5 Data Review

The Agilent Mass Hunter Quantitation program is used to review all data. All identifications are based upon acceptable ion ratios for the abundance of both precursor and product ions along with retention time information. All positive detections of target PFAS must be less that the high point conc. of the Cal. Curve.

8.5.1 Since certain PFAS species are manufactured by different processes the presence of branched as well as linear isomers may be found. In order to properly quantitate these species, the analyst must sum the related branched and linear isomers. This affects the following species: PFOS, PFHxS, PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE.

8.5.2 Any detection greater than the upper limit of the calibration curve requires dilution into the upper half of the curve, where possible.

9. CALIBRATION

9.1 Initial Calibration

The initial calibration covers the range 0.20 ng/mL to 1560 ng/mL nominal conc. or higher depending upon the linearity of the PFAS species. After acquisition, the data are quantitated in Mass Hunter and the default calibration model for target compounds is generated using Quadratic regression, FORCED through the origin where applicable. All same level species (EIS) used average response factor model. Depending upon the response and accuracy at each level as shown in the Mass Hunter program, use Linear, Forced, weighted (1/x) or quadratic, Forced, with or without weighting to achieve the best fit which is based upon the best accuracy on a compound by compound basis. In any case, the correlation coefficient must be greater than 0.990. Average response factor RSD should be $\leq$ 20% where used.

9.1.1 The calibration levels as shown in Section 7.6.3 use 8 levels. All points are included in the calibration with exception of some species that saturate at levels 7 and 8.

9.2 ICV/SCV

An independently prepared Initial Calibration Verification must be run immediately following initial calibration. The concentration of this standard should be in the middle of the calibration range (e.g. 5.0 ng/mL) and prepared from a separate preparation as that of the calibration. Unless project-specific data quality objectives are required, the values from the second-source check should be $\pm$ 30% of the expected concentration.

Corrective Action: Quantitative sample analyses should not proceed for a failing ICV. Recalibrate and re-run the ICV if necessary.

9.3 Continuing Calibration Verification

The first CCV is at a mid-level and run every 10 client samples including a closing CCV.

The mid-Level CCV must be ± 30% of the true value.

Corrective Action: If any of the required calibration check criteria fail, the system must be evaluated and any appropriate instrument repair or maintenance must be performed. Sample data are unacceptable and must be rerun. Reinjection the standard may be done. If the calibration check standard still fails, the system must be recalibrated.

10. Quality Control

10.1 Initial Demonstration of Capability (IDOC)

10.1.1 The initial demonstration requirement of EPA 1633 must be acceptable before analysis of samples may begin. To establish the ability to generate acceptable precision and recovery, the laboratory must perform the following operations for each sample matrix type to which the method will be applied by that laboratory.

The IDOC includes the following key elements:

- Initial Demonstration of Precision and Recovery (IPR)
- MDL determination

10.1.2 Initial Demonstration of Precision and Recovery-IPR

- Extract, concentrate, and analyze four aliquots of aqueous and soil matrices spiked with 100 uL of the native spike solution OPR Mix Y22J304, 50 µL of the EIS solution no. Y22J305. At least one method blank, matching the matrix being analyzed, must be prepared with the IPR batches by matrix. All sample processing steps that are used for processing samples, including preparation and extractions, cleanup and concentration, must be included in this test.

- Using results of the set of four analyses, compute the average percent recovery (R) of the extracts and the relative standard deviation (RSD) of the concentration for each target and EIS compound.
- For each native and isotopically labeled compound, compare RSD and % recovery with the corresponding limits for initial precision and recovery in Table 5. If RSD and R for all compounds meet the acceptance criteria, system performance is acceptable, and analysis of blanks and samples may begin. *Note these acceptance criteria are not finalized and are based upon a single lab validation. Data for this table are derived from the single-laboratory validation study, and are only provided as examples for this draft method. The data will be updated to reflect the inter-laboratory study results in a subsequent revision. Therefore, these criteria will change after inter-laboratory validation. Several sections of this method state that Table 5 criteria are required, this is standard language that will be applicable when the method is finalized.*

10.1.3 MDL Determination

MDL Determination –In order to perform the MDL study, 7 total extractions are performed on 3 different days (Extraction day 1= 3 LRBs and 3 LFBs); Extraction day 2 is 2 of each, and Extraction day 3 is also 2 of each).

The levels extracted represent approx. 3-5 x the expected LOQ.

Once extracted, the analyses are conducted on 3 separate days (we use only QQQ2 for EPA 1633 so all runs are on that system). The MDL is determined according to the EPA MDL protocol defined in Definition and Procedure of the Determination of the Method Detection Limit, Revision 2 Dec. 2016 as detailed below:

Make all computations as specified in the analytical method and express the final results in the method-specified reporting units.

Calculate the sample standard deviation (SD) of the replicate spiked sample measurements and the sample standard deviation of the replicate method blank measurements from all instruments to which the MDL will be applied.

Compute the MDLs (the MDL based on spiked samples) as follows:

MDL_s = 3.143 x SD (for seven replicates; SD = Standard Deviation)

Compute the MDLb (MDL based on method blanks-LRBs) as follows:

- If none of the blanks give numerical results then the MDLb does not apply
- If only some of the blanks (but not all) give a result, set the MDLb to the highest result found

- If ALL method blanks show a detections then use the following calculation to determine MDLb:

MDLb = Average of Blank Detections + (3.143 x Std. Dev.)

Calculate the final MDL by selecting the greater of MDLs or MDLb.

10.2 On-going QC Requirements

Preparation Batches are defined at the sample preparation step. Batches should be kept together through the whole analytical process as far as possible, but it is not mandatory to analyze prepared extracts on the same instrument or in the same sequence.

The quality control batch is a set of up to 20 samples of the same matrix processed using the same procedure and reagents within the same time period. The quality control batch may contain a matrix spike/matrix spike duplicate (MS/MSD), two laboratory control sample (LCS-LLOPR and OPR) and a method blank. Laboratory generated QC samples (Blank, LLOPR, OPR, MS/MSD) do not count toward the maximum 20 samples in a batch. Field QC samples are included in the batch count. In some cases, at client request, the MS/MSD may be replaced with a matrix spike and sample duplicate.

10.2.1 METHOD BLANK - One method blank must be extracted with every prep batch of similar matrix, not to exceed twenty (20) samples. For aqueous samples the matrix is Lab reagent water. For Soils the method blank matrix is Ottawa sand. Criteria:

- The method blank must not contain any analyte at or above 1/2 the LOQ (Reporting Limit).
- Re-extraction and reanalysis of samples associated with an unacceptable method blank is required when reportable concentrations are determined in the samples.

10.2.2 LABORATORY CONTROL SAMPLES (LCS- also called OPR and LLOPR) must be extracted with every process batch of similar matrix, not to exceed twenty (20) samples. The LCS is an aliquot of laboratory matrix (e.g. water for aqueous spiked with analytes of known identity and concentration and isotopic surrogate analogs. The OPRs must be processed in the same manner and at the same time as the associated samples. Recovery for Aqueous low level OPR target analytes is 40-150% until more data are derived. For all other Aqueous OPR levels recovery targets are 50-150%. These data are based upon EPA 1633 draft ranges that will change and are not used for acceptance/rejection but are reported until such time that fully validated acceptance ranges are provided in the final version of the method.

10.2.3 Matrix spike/Matrix spike duplicate (MS/MSD or MS/MSD). These are not typically required since each sample contains isotopic PFAS analogues that correct for any matrix effects. If the client requests them, then they are processed accordingly but are not a requirement of this method. If done they are by matrix, not to exceed twenty (20) samples. An MS/MSD pair is aliquots of a selected field sample spiked with analytes of known identity and concentration. The MS/MSD pair must be processed in the same manner and at the same time as the associated samples. Spiked analytes with recoveries or precision outside of the Laboratory control limits are flagged accordingly. Until enough statistical data per matrix is available, no criteria are offered. If a specific QA Project Plan has required limits, this is preempted. Any outliers must be qualified accordingly.

10.2.4 Initial calibration verification (ICV) –A second source standard is not required for this method. A second independently prepared mid-level standard is prepared and used for this purpose and analyzed after the ICAL. The concentration should be at the mid range of the curve and must recover within 70-130 % of expected value.

Corrective actions for the ICV include:

- Rerun the ICV
- Remake or acquire a new ICV.
- Evaluate the instrument conditions.
- Evaluate the initial calibration standards.
- Rerun the initial calibration.

10.2.5 Internal Standard- The Non-extracted Internal Standard (NIS) is added to each field and QC sample prior to analysis. The IS response (peak area) must not deviate by more than 50-200% from the mean response (peak area) of the initial calibration. If the areas are low for all the field samples and QC samples in the batch, it suggests a loss of instrument sensitivity, while low areas in only some field or QC samples suggests a possible bad injection.

Corrective action includes:

- Reinject the questionable samples
- Verifying the CCV NIS areas are compliant with the range, if so, this suggests either matrix effects and may require a small dilution to mitigate interference if only some of the NIS compounds are affected
- Qualify affected data

10.3 Initial Demonstration of Capability (IDC)

Initial Demonstration of Capability involves the following processes listed ion Table 1.0 as follows.

Table 1.0 - Initial Demonstration of Capability (IDC)

Requirement	Specification and Frequency	Acceptance Criteria
Initial Demonstration of Precision and Recovery (IPR)	Extract, concentrate, and analyze four aliquots of the matrix (aqueous and soil) spiked with target native standard solution, EIS solution and finally the NIS (ISTD). Extract a method blank of each matrix with each matrix IPR batch. All steps that are used for processing samples, including preparation and extraction must be included.	Using results of the set of four analyses, compute the average percent recovery (R) of the extracts and the relative standard deviation (RSD) of the concentration for each target and EIS compound.
		For each native and isotopically labeled compound, compare RSD and % recovery with the corresponding limits for initial precision and recovery in Table 5. If RSD and R for all compounds meet the acceptance criteria, system performance is acceptable, and analysis of blanks and samples may begin.
Method Detection Limit (MDL)	Method detection limit (MDL) - Each laboratory must also establish MDLs for all the analytes using the MDL procedure at 40 CFR Part 136, Appendix B. An MDL determination must be performed for all target compounds.	The minimum level of quantification (ML) can be calculated by multiplying the MDL by 3.18 and rounding to the nearest integer
Calibration Verification (ICV or SCV) *Section 9.1.5*	Analyze a mid-level ICV, each time a new calibration is performed or at a minimum, quarterly. The ICV must be an independent dilution beginning with the common starting materials used for ICAL. No 2nd source is required due to availability.	Results must be 70-130% of true value.

10.4 QC Requirements

Ongoing QC requirements are detailed in Table 3.0 as follows.

Table 3.0 QC Requirements

Summary of Quality Control		
Method Reference	**Requirement**	**Specification and Frequency**
Section 10.1	Mass Calibration	Annually and on as-needed basis
Section 10.1.7	Mass Calibration Verification	After mass calibration
Section 10.3	Initial Calibration (ICAL)	Minimum 6 calibration standards for linear model and 7 calibration standards for non-linear models.
Sections 10.2.2, 14.4	Retention Time (RT) window	After ICAL and at the beginning of analytical sequence
Sections 7.3.1, 9.4	Extracted Internal Standard (EIS) Analytes	All CAL standards, batch QC and field samples

Sections 7.3.2	Non-extracted Internal Standards (NIS)	All CAL standards, batch QC and field samples
Sections 7.3.4, 10.3.1, 13.3	Instrument Sensitivity Check (ISC)	Daily, prior to analysis
Section 14.2	Calibration Verification (CV) (CCV)	At the beginning and every 10 samples and at the end
Section 14.6	Instrument Blank	Daily prior to analysis and after high standards
Sections 9.1.3, 9.5, 14.7	Method Blank (MB)	One per preparation batch
Section 14.5	Ongoing Precision Recovery (OPR)	One per preparation batch
Section 11.0	Limit of Quantitation Verification (LLOPR)	Prior to analyzing samples
Section 11.0	Matrix Spike (MS/MSD)	One per preparation batch (if required) Normally not needed, since Isotope dilution is employed

11.0 DATA REVIEW, CALCULATIONS AND REPORTING

Samples concentrations are determined using either or linear regression or quadratic regression FORCED through the origin. Weighted ($1/x$ or $1/x^2$) may assist with low level accuracy and is recommended where necessary. All calibration curves have greater than 6 points. Any target analyte exceeding the calibration range will require dilution.

11.1 Data interpretation

All sample data calculations are performed by the Agilent Mass Hunter software in ng/mL and then final data are calculated taking into account final extract volumes and the initial sample volumes extracted which are entered into the Element bench sheet.

11.2 Linear and Branched Isomers are addressed in Section 8.5 and are reported for the noted species as Total which is a sum of the linear and branched isomers for affected species.

11.3 All Data are uploaded into Element LIMS and all final concentration calculations and associated recoveries are detailed. All pdfs of Mass Hunter Quant reports are uploaded to the Element Raw_Data drive for association with ICALs and all batch and analysis sequence runs. Data are set to Analyzed status once uploaded and initially reviewed, then locked.

11.4 The Data are then evaluated using the York Qualinator ^{TM} data review tool which evaluates all data CCVs, QC, ISTDS, Recoveries, etc. and automatically assigns outlier qualifiers for review and acceptance by the reviewer. The accepted data are then uploaded to Element and final reviewed in Laboratory Data Entry/Review module. Once reviewed, the status is set to Reviewed indicating the data are ready to be Reported by the Reporting Group.

12. HEALTH AND SAFETY

12.1 General safety considerations and requirements are detailed in the York Laboratory Safety and Health Standard Operating Procedure No. Safety011600.

Specific safety rules applying to the conduct of this analysis requiring the following:

- When handling standards and samples, latex gloves are required.
- Also, when handling neat materials, a fume hood and safety glasses are required.
- When handling samples, gloves and glasses are required.
- Highly odorous samples must be handled in a fume hood.
- Refer to SDSs for specific safety/health information.

12.2 The analysts must exercise normal care and be supervised and trained to work in an analytical chemistry laboratory. The analysts will be handling fragile glassware, needles, syringes, volatile and flammable chemicals, toxic chemicals and corrosive chemicals.

- No smoking or open flames are allowed.
- No food or food products may be brought into the laboratory.

Solvents should not be left uncovered on the laboratory benches.
All solvent transfers should be done in the hoods.

Hood doors must be kept in the position which yields approx. 100 fpm face velocity.
Solvent evaporation must be done in the hood with exhaust elevated and in the rear.

Waste containers that had solvents must be vented to a hood until all solvents have evaporated.

Safety glasses are provided and must be worn at all times in the laboratory.
Gloves are provided and must be worn when working with chemicals.
Laboratory coats are provided and should be worn to protect the analysts' clothes.
Syringes and needles must be kept in their original cases when not in use.
Care must be exercised in using and handling syringes to avoid injury.
Report any sticking with a needle immediately to your supervisor.

12.3 Specific Safety Concerns

12.3.1 Preliminary toxicity studies indicate that PFAS could have significant toxic effects. In the interest of keeping exposure levels as low as reasonably achievable, PFAS must be handled in the laboratory as hazardous and toxic chemicals.

12.3.2 Exercise caution when using syringes with attached filter

disc assemblies. Application of excessive force has, upon occasion, caused a filter disc to burst during the process.

12.3.3 Laboratory procedures such as repetitive use of pipets, repetitive transferring of extracts and manipulation of filled separatory funnels and other glassware represent a significant potential for repetitive motion or other ergonomic injuries. Laboratory associates performing these procedures are in the best position to realize when they are at risk for these types of injuries.

12.3.4 Eye protection, laboratory coat, and nitrile gloves must be worn while handling samples, standards, solvents, and reagents. Disposable gloves that have been contaminated will be removed and discarded; other gloves will be cleaned immediately.

12.3.5 Perfluorocarboxylic acids are acids and are not compatible with strong bases.

12.3.6 Primary Materials Used- The following is a list of the materials used in this method, which have a serious or significant hazard rating. NOTE: This list does not include all materials used in the method. The table contains a summary of the primary hazards listed in the SDS for each of the materials listed in the table. A complete list of materials used in the method can be found in the reagents and materials section. Employees must review the information in the SDS for each material before using it for the first time or when there are major changes to the SDS.

Methanol	-Flammable Poison -Irritant	200 ppm (TWA)	A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Symptoms of overexposure may include headache, drowsiness and dizziness. Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure. Irritant to the eyes.

Acetic Acid, Glacial	-Flammable liquid and vapor. -Irritation	10 ppm TWA; 25 mg/m3 TWA	**Eye:** Causes severe eye irritation. Contact with liquid or vapor causes severe burns and possible irreversible eye damage. **Skin:** Causes skin burns. May be harmful if absorbed through the skin. Contact with the skin may cause blackening and hyperkeratosis of the skin of the hands. **Ingestion:** May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause polyuria, oliguria (excretion of a diminished amount of urine in relation to the fluid intake) and anuria (complete suppression of urination). Rapidly absorbed from the gastrointestinal tract. **Inhalation:** Effects may be delayed. Causes chemical burns to the respiratory tract. Exposure may lead to bronchitis, pharyngitis, and dental erosion. May be absorbed through the lungs. **Chronic:** Chronic exposure to acetic acid may cause erosion of dental enamel, bronchitis, eye irritation, darkening of the skin, and chronic inflammation of the respiratory tract. Acetic acid can cause occupational asthma. One case of a delayed asthmatic response to glacial acetic acid has been reported in a person with bronchial asthma. Skin sensitization to acetic acid is rare, but has occurred.
Ammonium Hydroxide, conc. 28-30%	- Inhalation hazard - Skin Corrosion -Eye Damage and Irritation	OSHA PEL: 35 mg/m3 ; 50 ppm OSHA TWA: 18 mg/m3; 25 ppm	Ammonia is an irritant and corrosive to the skin, eyes, respiratory tract and mucous membranes. May cause severe chemical burns to the eyes, lungs and skin. Skin and respiratory related diseases could be aggravated by exposure. The extent of injury produced by exposure to ammonia depends on the duration of the exposure, the concentration of the liquid or vapor and the depth of inhalation**.** Exposure Routes: Inhalation (vapors), skin and/or eye contact (vapors, liquid), ingestion (liquid).
Formic Acid, conc.	-Flammable liquid and vapor -Harmful if swallowed -Causes severe skin burns and eye damage -Toxic if inhaled -May cause respiratory irritation	OSHA TWA: 5 ppm or 9 mg/m3 OSHA PEL: 10 ppm	Formic acid is an irritant and corrosive to the skin, eyes, respiratory tract and mucous membranes. May cause severe chemical burns to the eyes, lungs and skin. Skin and respiratory related diseases could be aggravated by exposure. The extent of injury produced by exposure to ammonia depends on the duration of the exposure, the concentration of the liquid or vapor and the depth of inhalation**.** Exposure Routes: Inhalation (vapors), skin and/or eye contact (vapors, liquid), ingestion (liquid).

13. WASTE MANAGEMENT/POLLUTION PREVENTION

Neat Materials

Waste management procedures require the prudent use of neat materials. The ordering of neat standards and materials must be done to minimize unused material which would result in storage or handling of excess material. Quantities ordered should be sufficient to provide for necessary standards with consideration to shelf life. When ordering a unique material for a standard, be sure to order the smallest practical quantity.

Solvents

The solvents used at York for this procedure include isopropanol and Methanol. These solvents are used for sample extraction or LC cleanup, all amounts are either consumed during concentration or placed in one liter amber jars in the hood areas for evaporation. Any remaining solvent/water is transferred to a drum designated for solvent waste.

Acids and Bases

The acids and bases used for this procedure include: Acetic Acid and Formic Acid. The bases used are Ammonium hydroxide, sodium hydroxide and potassium hydroxide. Store concentrated base and acids separately whether waste or neat material.

Samples

Unused or remaining water samples are returned to the sample control room for continued storage for proper disposal by the sample control group.

14. REFERENCES

1. EPA METHOD 1633 Draft 2 June, 2022- Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS; EPA 821-D-22-001

15. REVISION HISTORY

Revision 1.0	10/24/2022	First issue.
Revision 1.1	02/10/2023	Modified LLOPR in Section 7.4.6.1 to reflect 2x the MRL

Attachment 1 – Non-Extracted Internal Standards (NIS)

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B197**

Description:	MPFAC-HIF-IS-EPA 1633 ISTD STOCK	Prepared:	02/16/2022
Standard Type:	Other	Expires:	09/07/2026
Solvent:	Methanol/Water (<1%)	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	MPFACHIFIS0921
Vendor:	Wellington Laboratories		

Comments: Stock ISTD for EPA method 1633

Analyte	CAS Number	Concentration	Units
M3PFBA		1	ug/mL
MPFDA		0.25	ug/mL
MPFHxA		0.5	ug/mL
MPFHxS		0.474	ug/mL
MPFNA		0.25	ug/mL
MPFOA		0.5	ug/mL
MPFOS		0.479	ug/mL

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-HIF-IS

Mass-Labelled Perfluoroalkyl Substance Injection Standard Solution/Mixture

PRODUCT CODE:	MPFAC-HIF-IS
LOT NUMBER:	MPFACHIFIS0921
SOLVENT(S):	Methanol/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	09/07/2021
LAST TESTED: (mm/dd/yyyy)	09/07/2021
EXPIRY DATE: (mm/dd/yyyy)	09/07/2026
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

MPFAC-HIF-IS is a solution/mixture of five mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4, C_8, C_9-C_{10}) and two mass-labelled (^{18}O and ^{13}C) perfluoroalkanesulfonates (C_6 and C_8). The components and their concentrations are given in Table A.

The individual mass-labelled perfluoroalkylcarboxylic acids and mass-labelled perfluoroalkanesulfonates all have chemical purities of >98% and isotopic purities of ≥99% per ^{13}C or >94% per ^{18}O.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED AR-1523 ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **MPFAC-HIF-IS; Components and Concentrations (ng/mL, ± 5% in methanol/water (<1%))**

Compound	Acronym	Concentration (ng/mL)		Peak Assignment in Figure 1
Perfluoro-n-(2,3,4-$^{13}C_3$)butanoic acid	M3PFBA	1000		1
Perfluoro-n-(1,2-$^{13}C_2$)hexanoic acid	MPFHxA	500		2
Perfluoro-n-(1,2,3,4-$^{13}C_4$)octanoic acid	MPFOA	500		4
Perfluoro-n-(1,2,3,4,5-$^{13}C_5$)nonanoic acid	MPFNA	250		5
Perfluoro-n-(1,2-$^{13}C_2$)decanoic acid	MPFDA	250		7
Compound	**Acronym**	**Concentration* (ng/mL)**		**Peak Assignment in Figure 1**
		as the salt	**as the acid**	
Sodium perfluoro-1-hexane($^{18}O_2$)sulfonate	MPFHxS	500	474	3
Sodium perfluoro-1-(1,2,3,4-$^{13}C_4$)octanesulfonate	MPFOS	500	479	6

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 10/13/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

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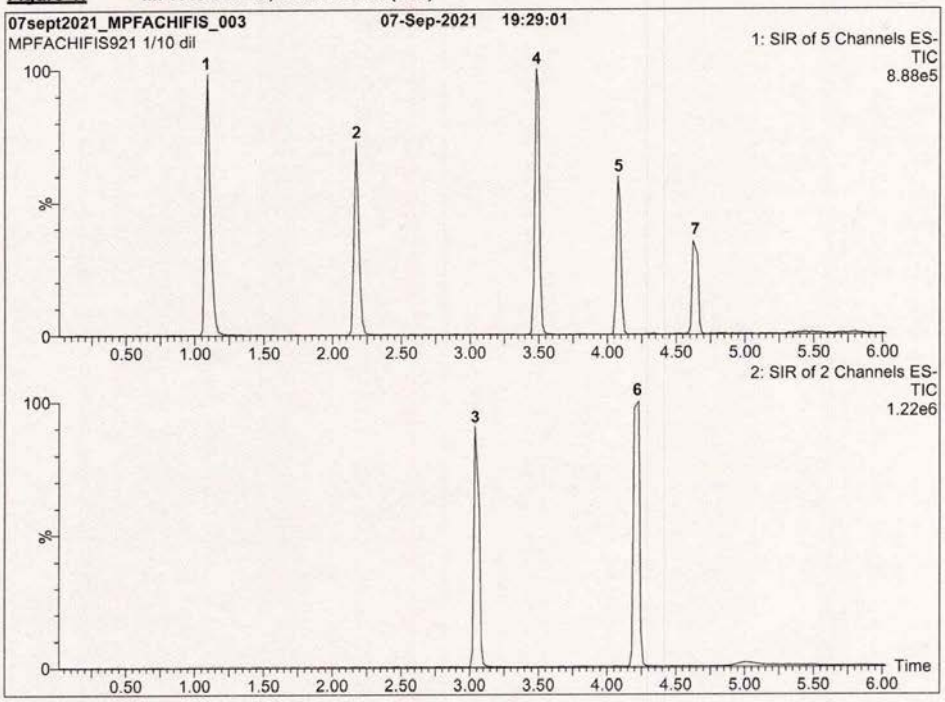
rev1

Figure 1: **MPFAC-HIF-IS; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (2-6)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

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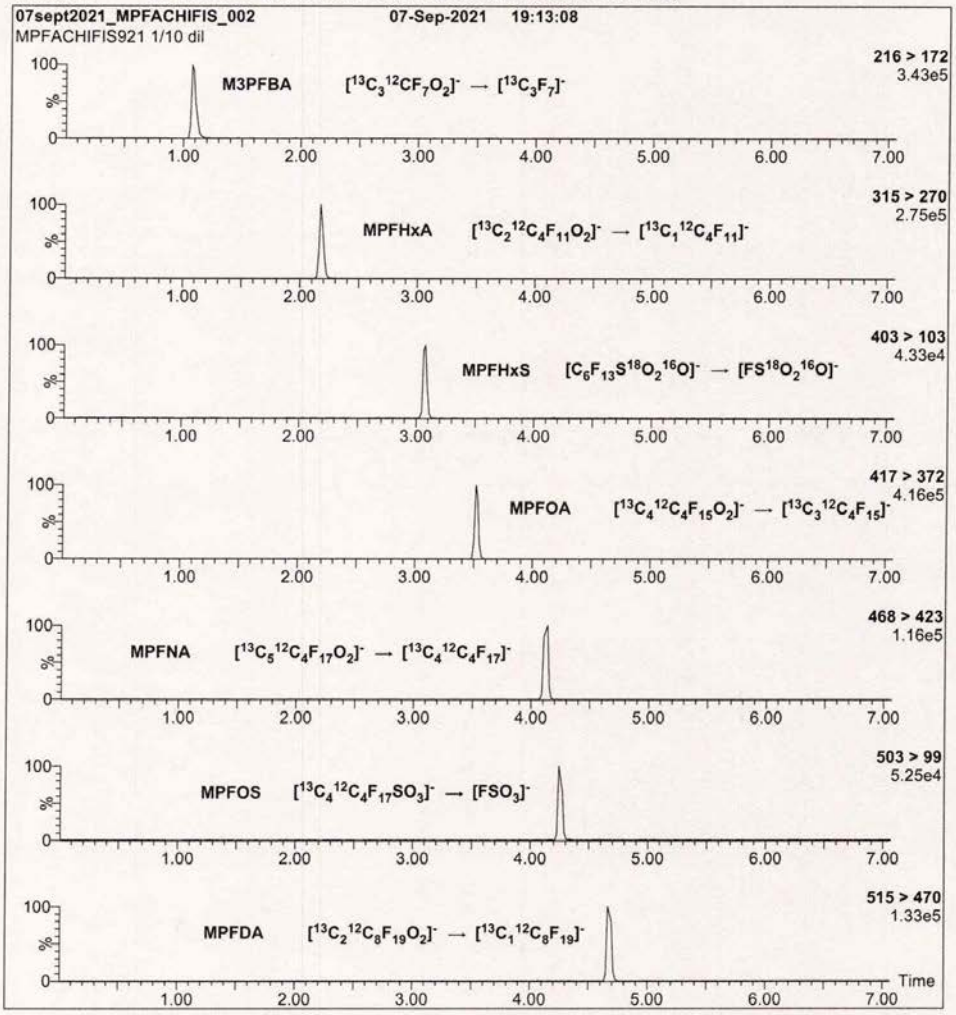
Figure 2: **MPFAC-HIF-IS; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFAC-HIF-IS)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.18e-3
Collision Energy (eV) = 4-64 (variable)

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rev1

Attachment 2 – Extracted Internal Standards (EIS)

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B198**

Description:	MPFAC-HIF-ES-EPA 1633 STOCK EIS mix	Prepared:	02/17/2022
Standard Type:	Other	Expires:	08/06/2024
Solvent:	MeOH/IPA/1% H2O	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	MPFACHIFES0821
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
d3-N-MeFOSAA		1	ug/mL
d5-N-EtFOSAA		1	ug/mL
d7-N-MeFOSE		5	ug/mL
d9-N-EtFOSE		5	ug/mL
d-N-EtFOSA		0.5	ug/mL
d-N-MeFOSA		0.5	ug/mL
M2-4:2FTS		0.938	ug/mL
M2-6:2FTS		0.951	ug/mL
M2-8:2FTS		0.96	ug/mL
M2PFTeDA		0.25	ug/mL
M3HFPO-DA		2	ug/mL
M3PFBS		0.466	ug/mL
M3PFHxS		0.474	ug/mL
M4PFHpA		0.5	ug/mL
M5PFHxA		0.5	ug/mL
M5PFPeA		1	ug/mL
M6PFDA		0.25	ug/mL
M7PFUdA		0.25	ug/mL
M8FOSA		0.5	ug/mL
M8PFOA		0.5	ug/mL
M8PFOS		0.479	ug/mL
M9PFNA		0.25	ug/mL
MPFBA		2	ug/mL
MPFDoA		0.25	ug/mL

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

MPFAC-HIF-ES

Mass-Labelled Per- and Poly-fluoroalkyl Substance Extraction Standard Solution/Mixture

PRODUCT CODE:	MPFAC-HIF-ES
LOT NUMBER:	MPFACHIFES0821
SOLVENT(S):	Methanol/Isopropanol (1%)/Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	08/05/2021
LAST TESTED: (mm/dd/yyyy)	08/16/2021
EXPIRY DATE: (mm/dd/yyyy)	08/16/2024
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

MPFAC-HIF-ES is a solution/mixture of ten mass-labelled (^{13}C) perfluoroalkylcarboxylic acids (C_4-C_{12}, C_{14}), three mass-labelled (^{13}C) perfluoroalkanesulfonates (C_4, C_8, and C_8), three mass-labelled (one ^{13}C and two ^{2}H) perfluoro-1-octanesulfonamides, three mass-labelled (^{13}C) fluorotelomer sulfonates (4:2, 6:2, and 8:2), two mass-labelled (^{2}H) perfluorooctanesulfonamidoacetic acids, two mass-labelled (^{2}H) perfluorooctanesulfonamidoethanols, and mass-labelled (^{13}C) hexafluoropropylene oxide dimer acid. The components and their concentrations are given in Table A.

The individual mass-labelled perfluoroalkylcarboxylic acids, mass-labelled perfluoroalkanesulfonates, mass-labelled fluorotelomer sulfonates, perfluoro-1-($^{13}C_8$)octanesulfonamide, and mass-labelled hexafluoropropylene oxide dimer acid all have chemical purities of >98% and isotopic purities of ≥99%. The individual mass-labelled perfluorooctanesulfonamidoacetic acids, mass-labelled perfluorooctanesulfonamidoethanols, and two mass-labelled (^{2}H) perfluoro-1-octanesulfonamides all have chemical purities of >98% and isotopic purities of ≥98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

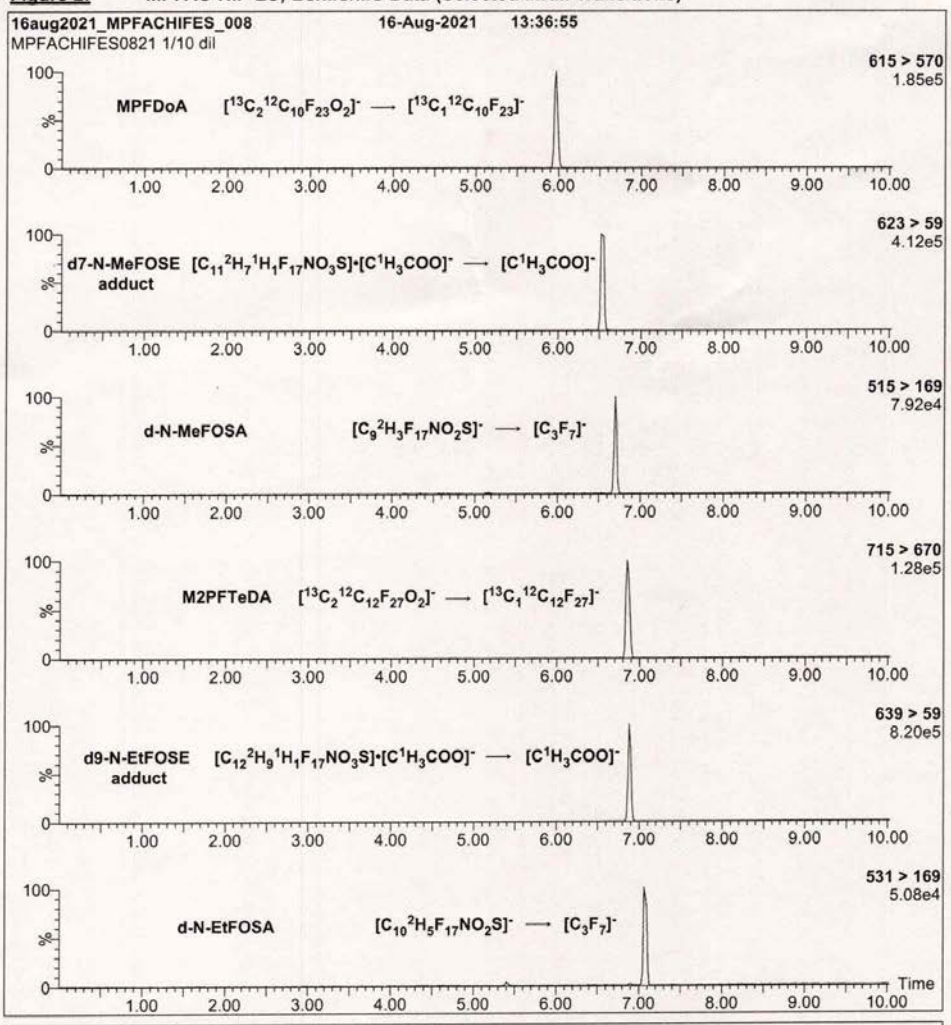
ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (2 of 7)
rev1

Figure 2: **MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (MPFAC-HIF-ES)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:

Collision Gas (mbar) = 3.41e-3
Collision Energy (eV) = 4-64 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

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rev1

Table A: **MPFAC-HIF-ES; Components and Concentrations (ng/mL, ± 5% in Methanol/Isopropanol (1%)/Water (<1%))**

Compound	Acronym	Concentration (ng/mL)	Peak Assignment in Figure 1
Perfluoro-n-($^{13}C_4$)butanoic acid	MPFBA	2000	1
Perfluoro-n-($^{13}C_5$)pentanoic acid	M5PFPeA	1000	2
Perfluoro-n-(1,2,3,4,6-$^{13}C_5$)hexanoic acid	M5PFHxA	500	5
Perfluoro-n-(1,2,3,4-$^{13}C_4$)heptanoic acid	M4PFHpA	500	7
Perfluoro-n-($^{13}C_8$)octanoic acid	M8PFOA	500	10
Perfluoro-n-($^{13}C_9$)nonanoic acid	M9PFNA	250	11
Perfluoro-n-(1,2,3,4,5,6-$^{13}C_6$)decanoic acid	M6PFDA	250	14
Perfluoro-n-(1,2,3,4,5,6,7-$^{13}C_7$)undecanoic acid	M7PFUdA	250	17
Perfluoro-n-(1,2-$^{13}C_2$)dodecanoic acid	MPFDoA	250	19
Perfluoro-n-(1,2-$^{13}C_2$)tetradecanoic acid	M2PFTeDA	250	22
Perfluoro-1-($^{13}C_8$)octanesulfonamide	M8FOSA	500	18
N-methyl-d_3-perfluoro-1-octanesulfonamide	d-N-MeFOSA	500	21
N-ethyl-d_5-perfluoro-1-octanesulfonamide	d-N-EtFOSA	500	24
N-methyl-d_3-perfluoro-1-octanesulfonamidoacetic acid	d3-N-MeFOSAA	1000	15
N-ethyl-d_5-perfluoro-1-octanesulfonamidoacetic acid	d5-N-EtFOSAA	1000	16
2-(N-methyl-d_3-perfluoro-1-octanesulfonamido)ethan-d_4-ol	d7-N-MeFOSE	5000	20
2-(N-ethyl-d_5-perfluoro-1-octanesulfonamido)ethan-d_4-ol	d9-N-EtFOSE	5000	23
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)($^{13}C_3$)propanoic acid	M3HFPO-DA	2000	6

Compound	Acronym	Concentration* (ng/mL)		Peak Assignment in Figure 1
		as the salt	as the acid	
Sodium perfluoro-1-(2,3,4-$^{13}C_3$)butanesulfonate	M3PFBS	500	466	3
Sodium perfluoro-1-(1,2,3-$^{13}C_3$)hexanesulfonate	M3PFHxS	500	474	8
Sodium perfluoro-1-($^{13}C_8$)octanesulfonate	M8PFOS	500	479	12
Sodium 1H,1H,2H,2H-perfluoro-(1,2-$^{13}C_2$)hexanesulfonate	M2-4:2FTS	1000	938	4
Sodium 1H,1H,2H,2H-perfluoro-(1,2-$^{13}C_2$)octanesulfonate	M2-6:2FTS	1000	951	9
Sodium 1H,1H,2H,2H-perfluoro-(1,2-$^{13}C_2$)decanesulfonate	M2-8:2FTS	1000	960	13

* Concentrations have been rounded to three significant figures.

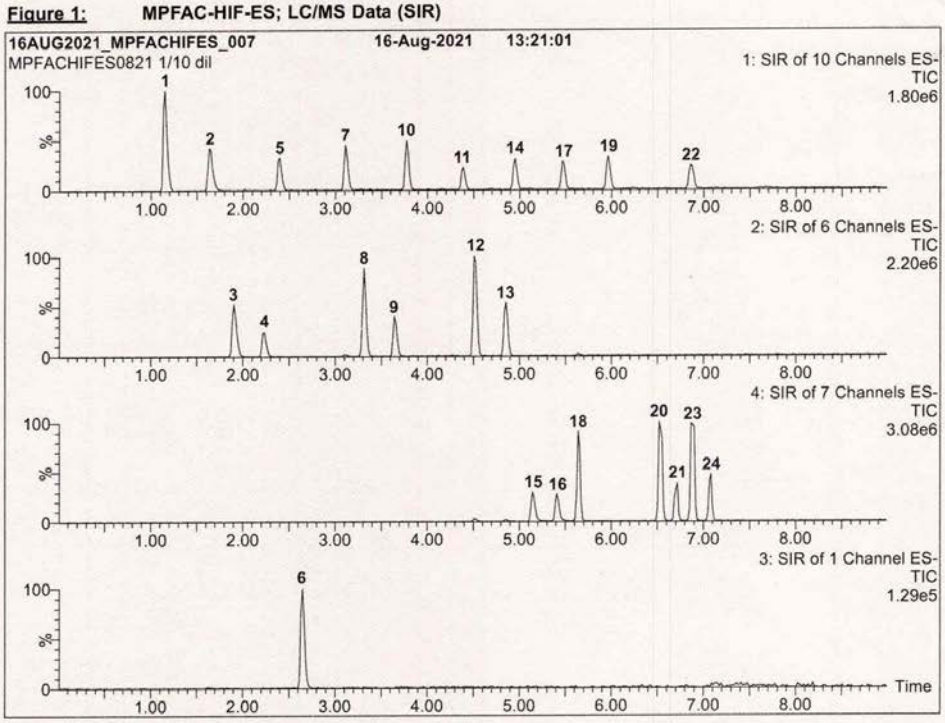
Certified By: _____ **Date:** 10/13/2021 (mm/dd/yyyy)

B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (3 of 7)
rev1

Figure 1: **MPFAC-HIF-ES; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

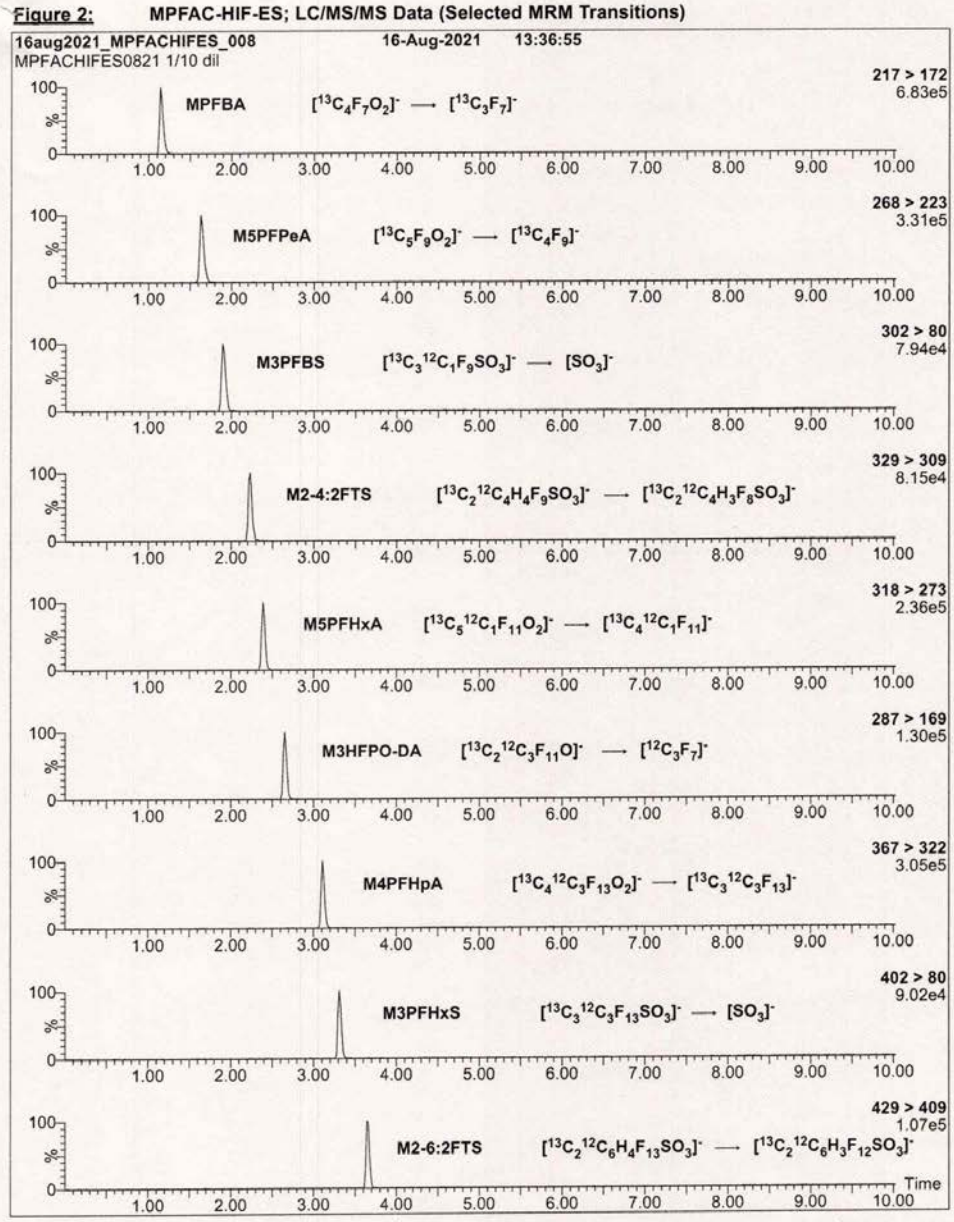
Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (2-44)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (4 of 7)
rev1

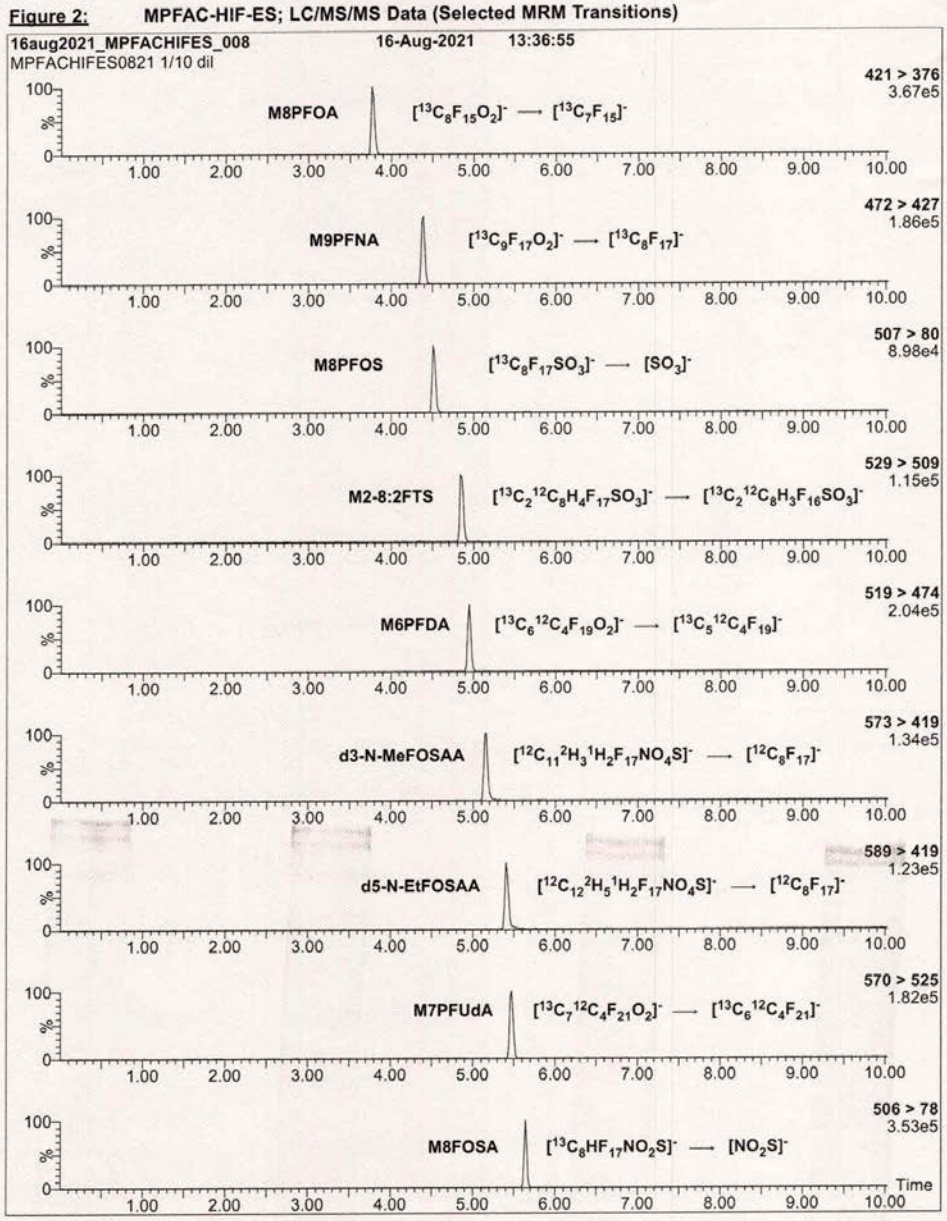
Figure 2: **MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)**



Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (5 of 7)
rev1

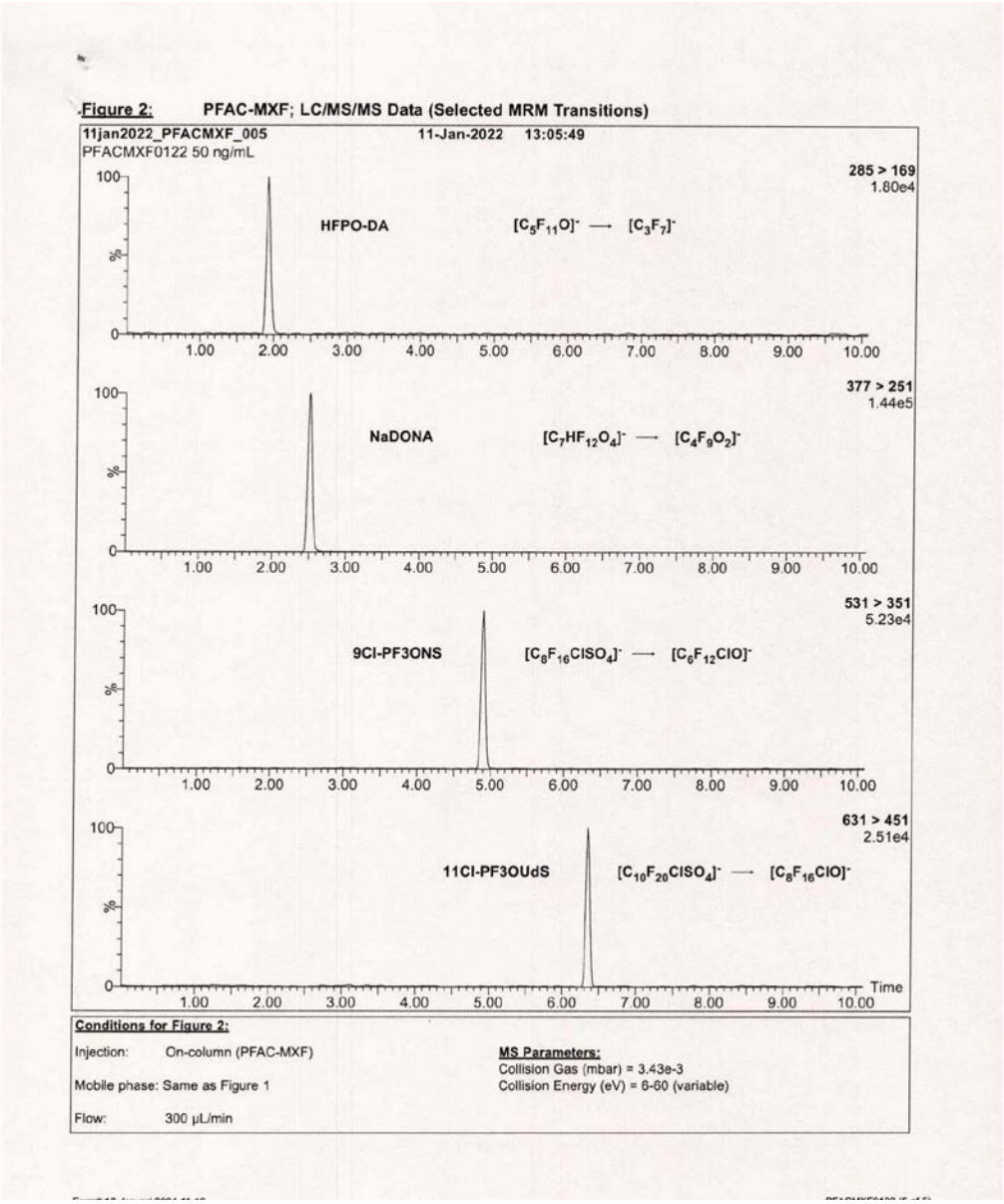
Figure 2: **MPFAC-HIF-ES; LC/MS/MS Data (Selected MRM Transitions)**



Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

MPFACHIFES0821 (6 of 7)
rev1

Attachment 3 – Target Analyte Mixtures



INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXF0122 (2 of 5)
rev0

Table A: **PFAC-MXF; Components and Concentrations (ng/mL; ± 5% in Methanol/Water (<1%))**

Compound	Acronym	Concentration* (ng/ml)		Peak Assignment in Figure 1
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid	HFPO-DA	2000		A
Compound	**Acronym**	**Concentration* (ng/mL)**		**Peak Assignment in Figure 1**
		as the salt	**as the acid**	
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2000	1890	B
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9Cl-PF3ONS	2000	1870	C
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	11Cl-PF3OUdS	2000	1890	D

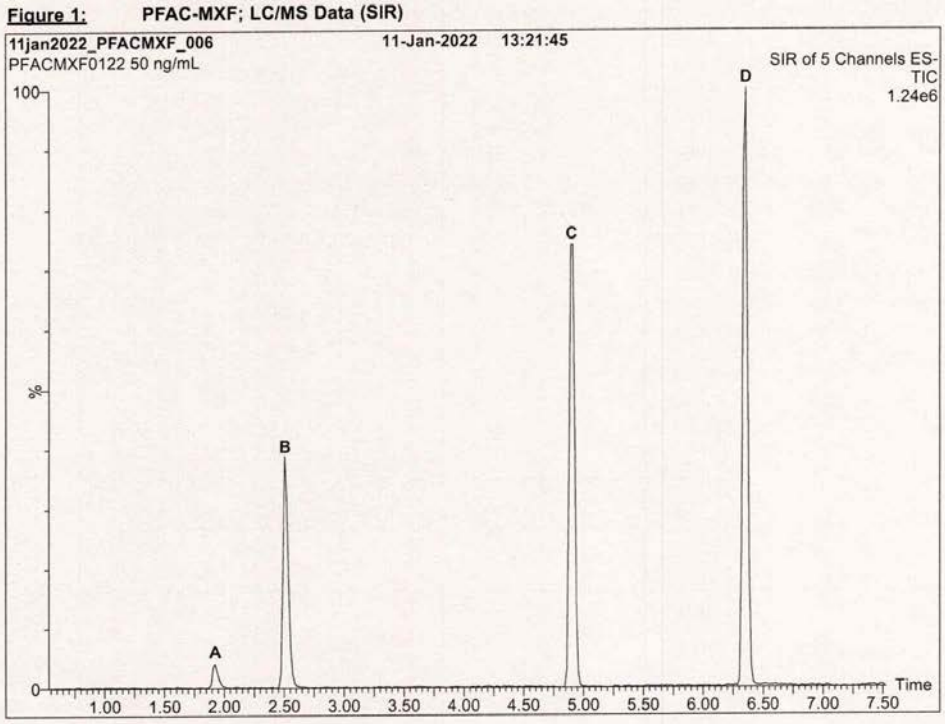
* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 01/12/2022 (mm/dd/yyyy)
B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXF0122 (3 of 5)
rev0

Figure 1: **PFAC-MXF; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% H_2O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.75 min.
Time: 12 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (15-74)
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

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rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B199**

Description:	PFAC-MXF-Native Repl.STOCK EPA 1633 PFAS	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**01/11/2025**
Solvent:	MeOH/H20	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXF0122
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
11CL-PF3OUdS	763051-92-9	1.89	ug/mL
9CL-PF3ONS	756426-58-1	1.87	ug/mL
ADONA	919005-14-4	1.89	ug/mL
HFPO-DA (Gen-X)	13252-13-6	2	ug/mL

Reviewed By Date

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WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXF

Native Replacement PFAS Solution/Mixture

PRODUCT CODE:	PFAC-MXF
LOT NUMBER:	PFACMXF0122
SOLVENT(S):	Methanol / Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	01/10/2022
LAST TESTED: (mm/dd/yyyy)	01/11/2022
EXPIRY DATE: (mm/dd/yyyy)	01/11/2025
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

PFAC-MXF is a solution/mixture of sodium dodecafluoro-3H-4,8-dioxanonanoate (NaDONA), the major and minor components of F-53B (9Cl-PF3ONS and 11Cl-PF3OUdS), and GenX (HFPO-DA). The components and their concentrations are given in Table A.

The individual native components of this mixture all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

Table A: **PFAC-MXI; Components and Concentrations (µg/mL; ± 5% in methanol)**

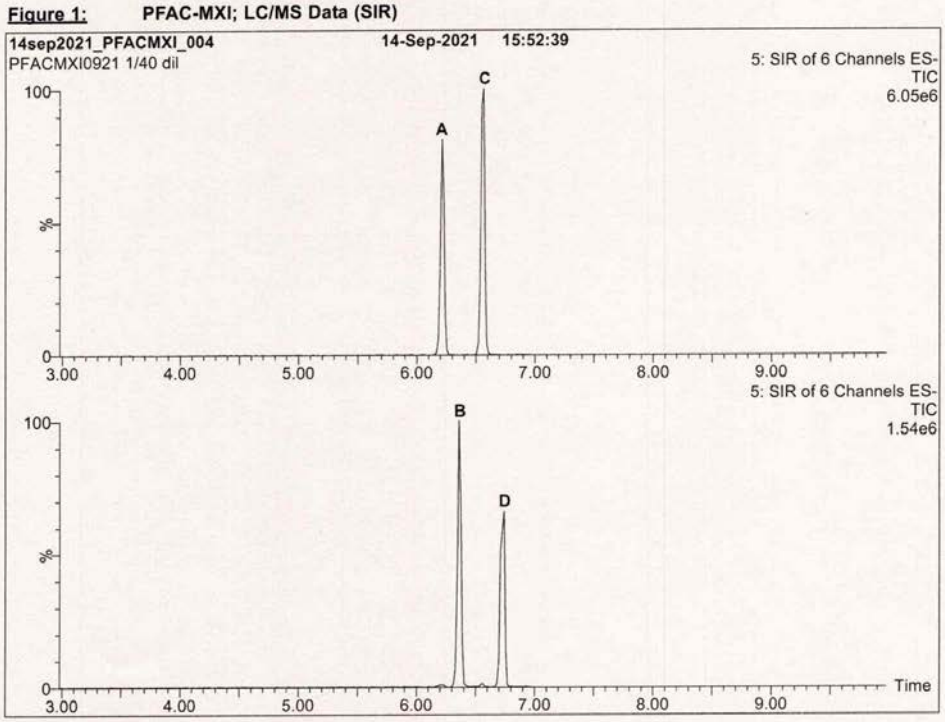
Compound	Acronym	Concentration (µg/mL)	Peak Assignment in Figure 1
N-methylperfluoro-1-octanesulfonamide	N-MeFOSA	1.00	B
N-ethylperfluoro-1-octanesulfonamide	N-EtFOSA	1.00	D
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	N-MeFOSE	10.0	A
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol	N-EtFOSE	10.0	C

Certified By: _____ **Date:** 09/23/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXI0921 (3 of 5)
rev0

Figure 1: **PFAC-MXI; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = variable (2-74)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

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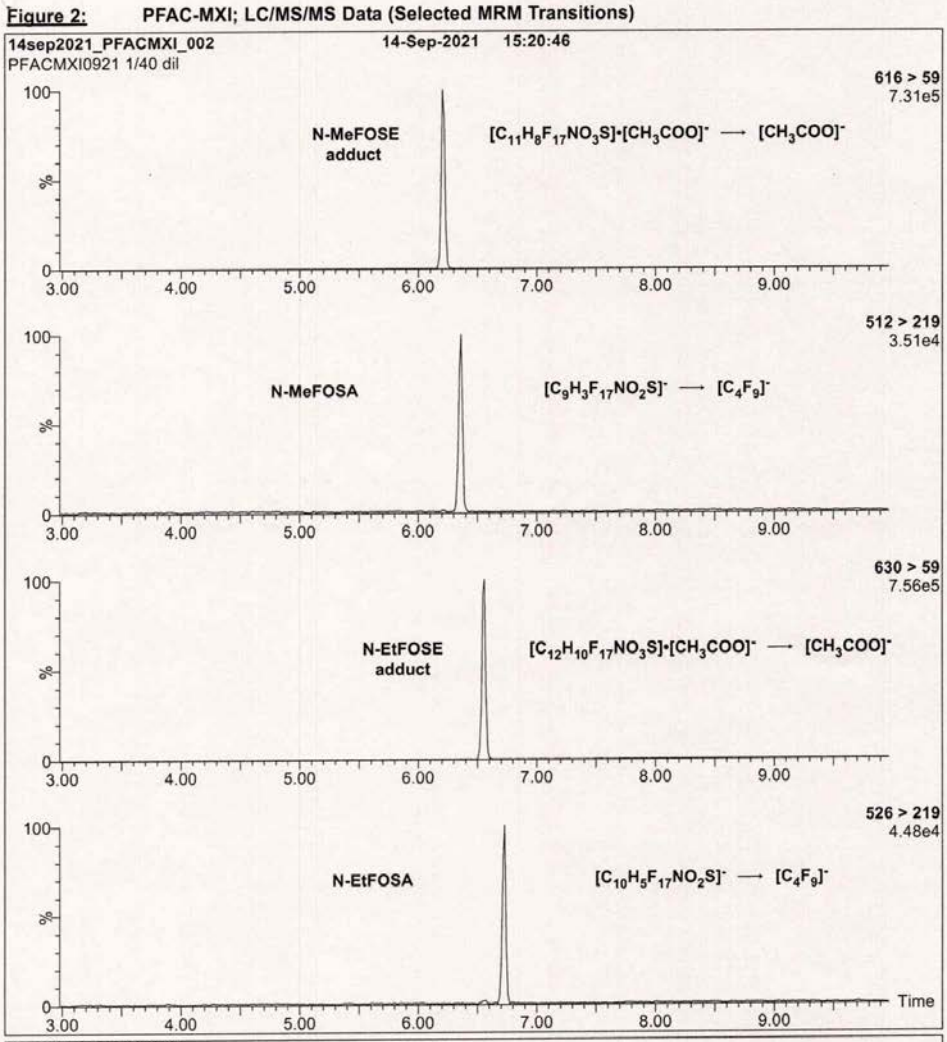
rev0

Figure 2: **PFAC-MXI; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXI)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:
Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 6-60 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXI0921 (5 of 5)
rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B204**

Description:	PFAC-MXI-EPA 1633 Stock	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**02/17/2023**
Solvent:	Methanol	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXI0921
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
N-EtFOSA	4151-50-2	1	ug/mL
N-EtFOSE	1691-99-2	10	ug/mL
N-MeFOSA	31506-32-8	1	ug/mL
N-MeFOSE	24448-09-7	10	ug/mL

Reviewed By Date

Page 1 of 1

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXI

Native Perfluorooctanesulfonamide and Perfluorooctanesulfonamidoethanol Solution/Mixture

PRODUCT CODE:	PFAC-MXI
LOT NUMBER:	PFACMXI0921
SOLVENT(S):	Methanol
DATE PREPARED: (mm/dd/yyyy)	09/08/2021
LAST TESTED: (mm/dd/yyyy)	09/14/2021
EXPIRY DATE: (mm/dd/yyyy)	09/14/2026
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

PFAC-MXI is a solution/mixture of two native perfluorooctanesulfonamides (FOSAs) and two native perfluorooctanesulfonamidoethanols (FOSEs). The components and their concentrations are given in Table A.

The individual components have a chemical purity of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

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519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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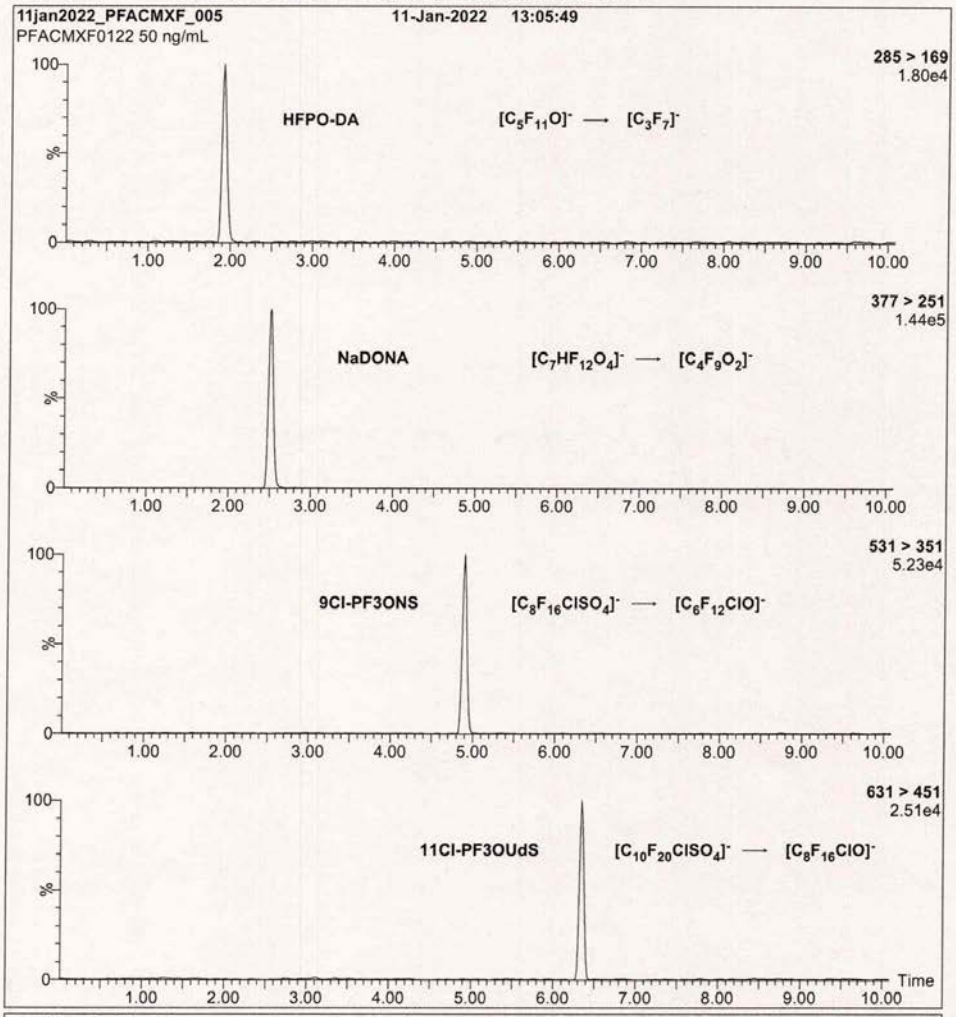
Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXI0921 (2 of 5)
rev0

Figure 2: **PFAC-MXF; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXF)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:
Collision Gas (mbar) = 3.43e-3
Collision Energy (eV) = 6-60 (variable)

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXF0122 (5 of 5)
rev0

INTENDED USE:

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where x is expressed as a relative standard uncertainty of the individual parameter.

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EXPIRY DATE / PERIOD OF VALIDITY:

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXF0122 (2 of 5)
rev0

Table A: **PFAC-MXF; Components and Concentrations (ng/mL; ± 5% in Methanol/Water (<1%))**

Compound	Acronym	Concentration* (ng/ml)		Peak Assignment in Figure 1
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid	HFPO-DA	2000		A
Compound	**Acronym**	**Concentration* (ng/mL)**		**Peak Assignment in Figure 1**
		as the salt	**as the acid**	
Sodium dodecafluoro-3H-4,8-dioxanonanoate	NaDONA	2000	1890	B
Potassium 9-chlorohexadecafluoro-3-oxanonane-1-sulfonate	9Cl-PF3ONS	2000	1870	C
Potassium 11-chloroeicosafluoro-3-oxaundecane-1-sulfonate	11Cl-PF3OUdS	2000	1890	D

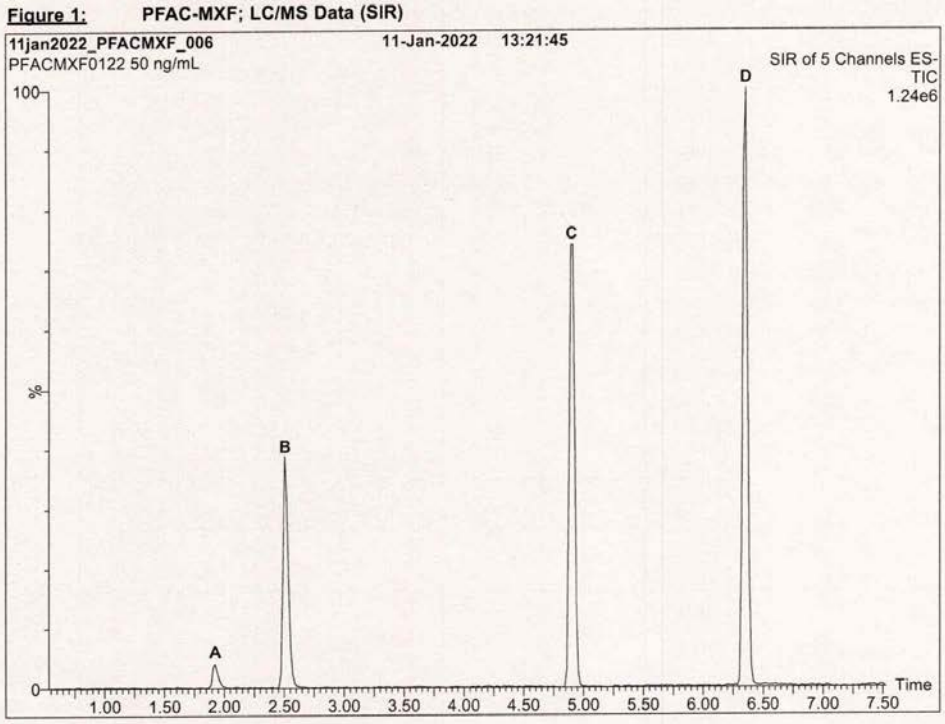
* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 01/12/2022 (mm/dd/yyyy)
B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXF0122 (3 of 5)
rev0

Figure 1: **PFAC-MXF; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 45% H_2O / 55% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 8 min and hold for 2 min
before returning to initial conditions in 0.75 min.
Time: 12 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.00
Cone Voltage (V) = variable (15-74)
Desolvation Temperature (°C) = 325
Desolvation Gas Flow (L/hr) = 1000

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rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B199**

Description:	PFAC-MXF-Native Repl.STOCK EPA 1633 PFAS	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**01/11/2025**
Solvent:	MeOH/H20	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXF0122
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
11CL-PF3OUdS	763051-92-9	1.89	ug/mL
9CL-PF3ONS	756426-58-1	1.87	ug/mL
ADONA	919005-14-4	1.89	ug/mL
HFPO-DA (Gen-X)	13252-13-6	2	ug/mL

Reviewed By Date

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WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXF

Native Replacement PFAS Solution/Mixture

PRODUCT CODE:	PFAC-MXF
LOT NUMBER:	PFACMXF0122
SOLVENT(S):	Methanol / Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	01/10/2022
LAST TESTED: (mm/dd/yyyy)	01/11/2022
EXPIRY DATE: (mm/dd/yyyy)	01/11/2025
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

PFAC-MXF is a solution/mixture of sodium dodecafluoro-3H-4,8-dioxanonanoate (NaDONA), the major and minor components of F-53B (9Cl-PF3ONS and 11Cl-PF3OUdS), and GenX (HFPO-DA). The components and their concentrations are given in Table A.

The individual native components of this mixture all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

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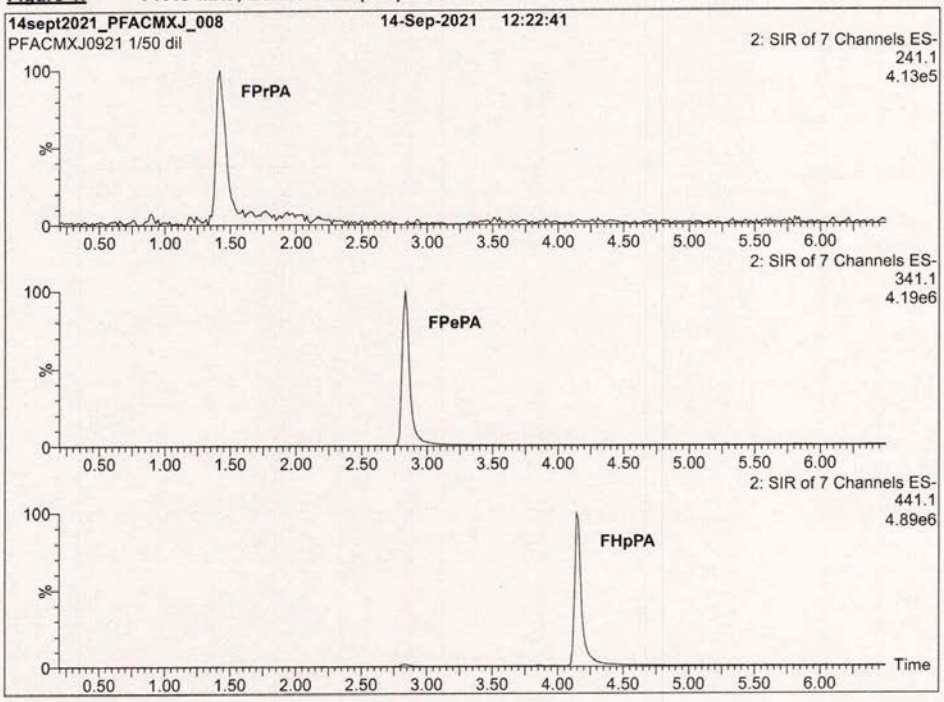
Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

Table A: **PFAC-MXJ; Components and Concentrations (µg/mL; ± 5% in methanol)**

Compound	Acronym	Concentration (µg/mL)
3-Perfluoropropyl propanoic acid	FPrPA	4.00
3-Perfluoropentyl propanoic acid	FPePA	20.0
3-Perfluoroheptyl propanoic acid	FHpPA	20.0

Certified By: _____ **Date:** 10/02/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **PFAC-MXJ; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for
2 min before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = variable (2-74)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

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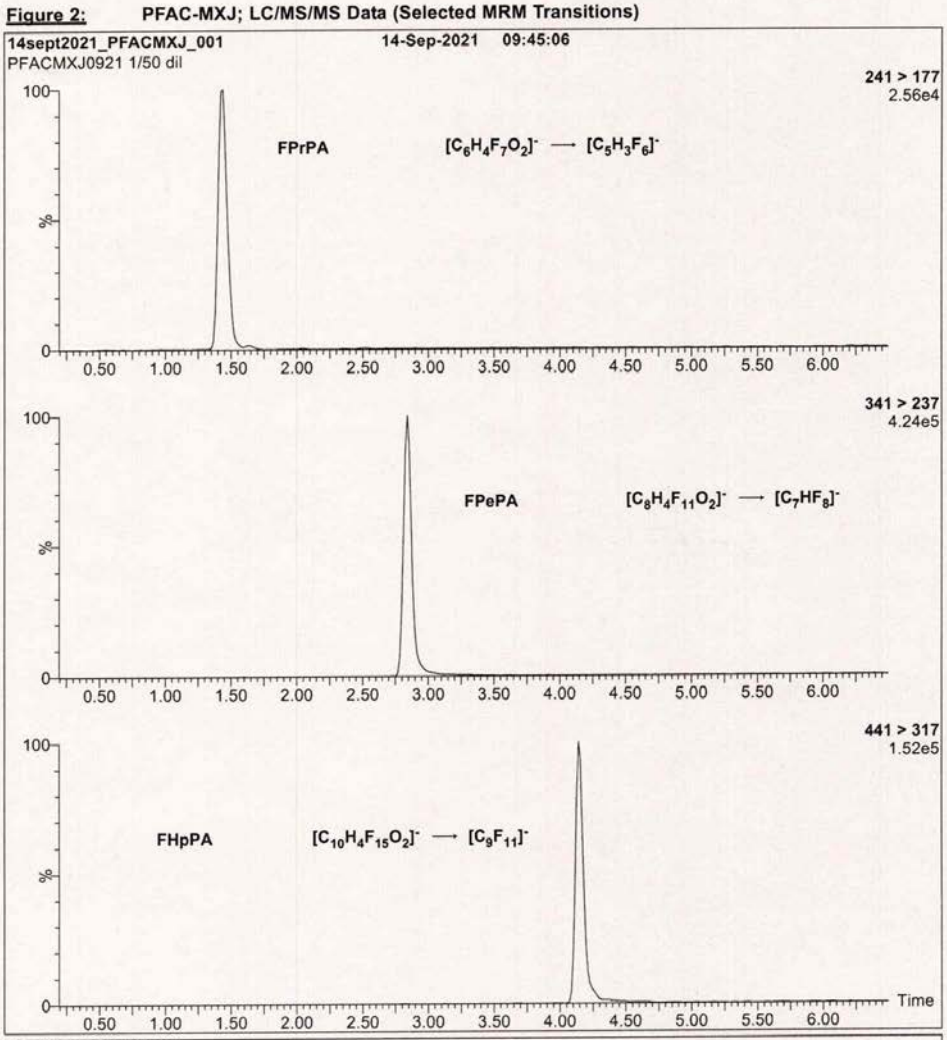
rev1

Figure 2: **PFAC-MXJ; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXJ)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:
Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 6-60 (variable)

Form#:13, Issued 2004-11-10
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PFACMXJ0921 (5 of 5)
rev1

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B205**

Description:	PFAC-MXJ-EPA 1633 Stock mix	Prepared:	02/17/2022
Standard Type:	Other	Expires:	09/14/2026
Solvent:	Methanol	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXJ0921
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
3-Perfluoroheptyl propanoic acid (FHpPA	812-70-4	20	ug/mL
3-Perfluoropentyl propanoic acid (FPePA)	914637-49-3	20	ug/mL
3-Perfluoropropyl propanoic acid (FPrPA)	356-02-2	4	ug/mL

Reviewed By Date

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WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXJ

Native X:3 Fluorotelomer Carboxylic Acid Solution/Mixture

PRODUCT CODE:	PFAC-MXJ
LOT NUMBER:	PFACMXJ0921
SOLVENT(S):	Methanol
DATE PREPARED: (mm/dd/yyyy)	09/08/2021
LAST TESTED: (mm/dd/yyyy)	09/14/2021
EXPIRY DATE: (mm/dd/yyyy)	09/14/2026
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

PFAC-MXJ is a solution/mixture of three native X:3 fluorotelomer carboxylic acids. The components and their concentrations are given in Table A.

The individual components have a chemical purity of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

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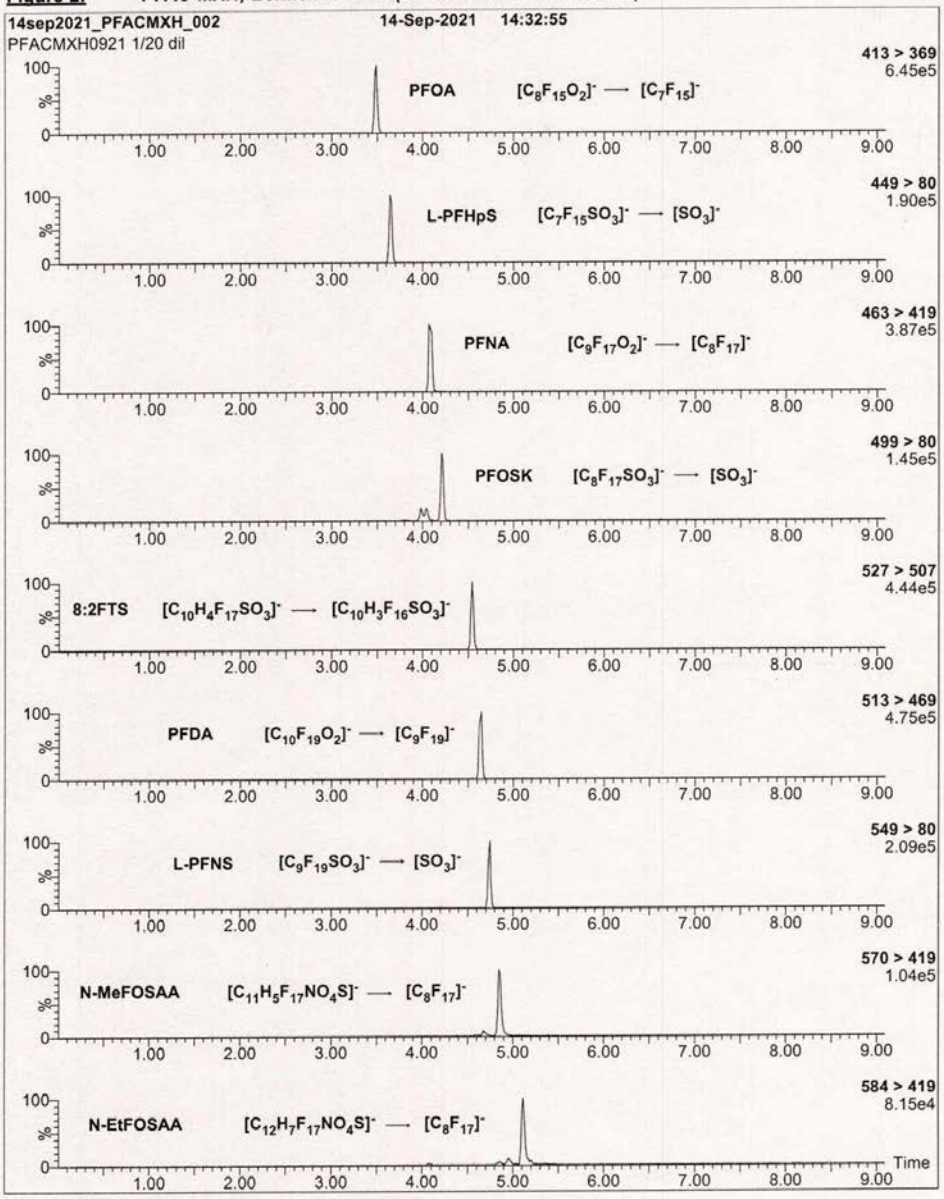
Figure 2: **PFAC-MXH; LC/MS/MS Data (Selected MRM Transitions)**



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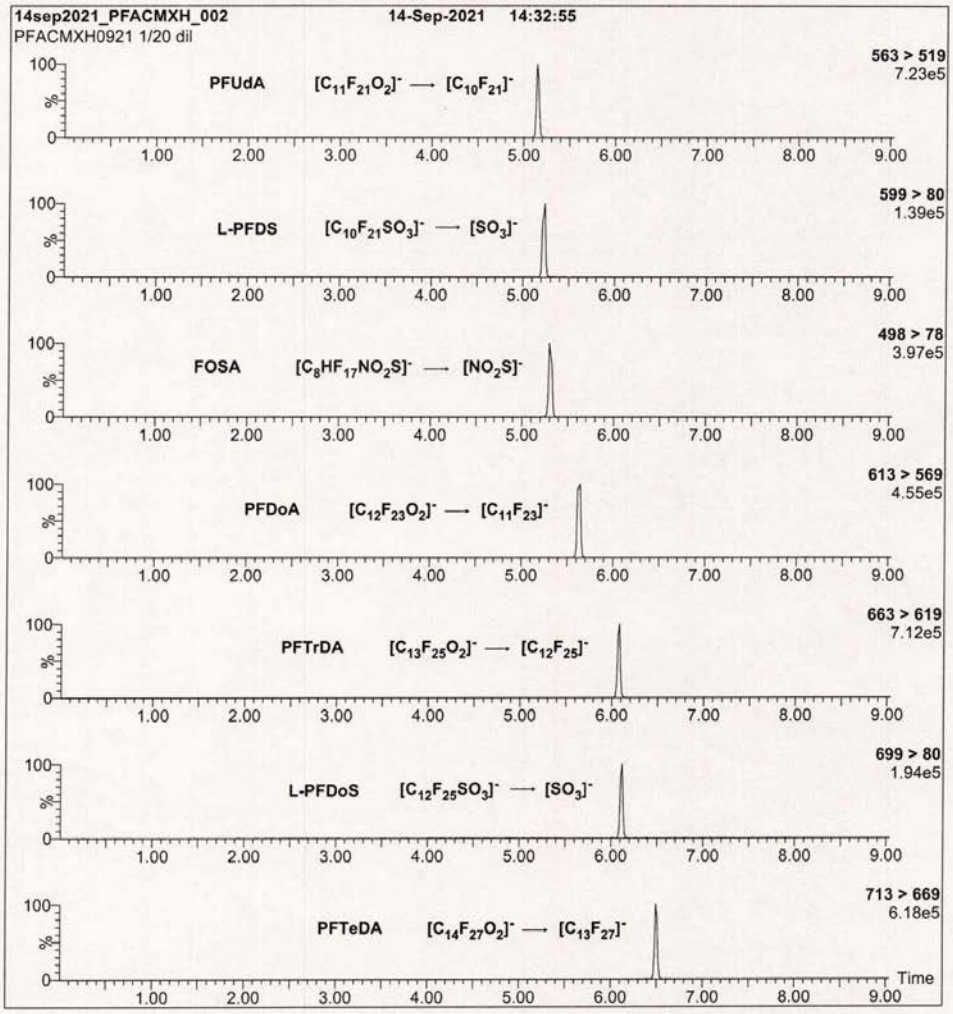
rev0

Figure 2: **PFAC-MXH; LC/MS/MS Data (Selected MRM Transitions)**



Conditions for Figure 2:

Injection: On-column (PFAC-MXH)

Mobile phase: Same as Figure 1

Flow: 300 µL/min

MS Parameters:
Collision Gas (mbar) = 3.31e-3
Collision Energy (eV) = 6-60 (variable)

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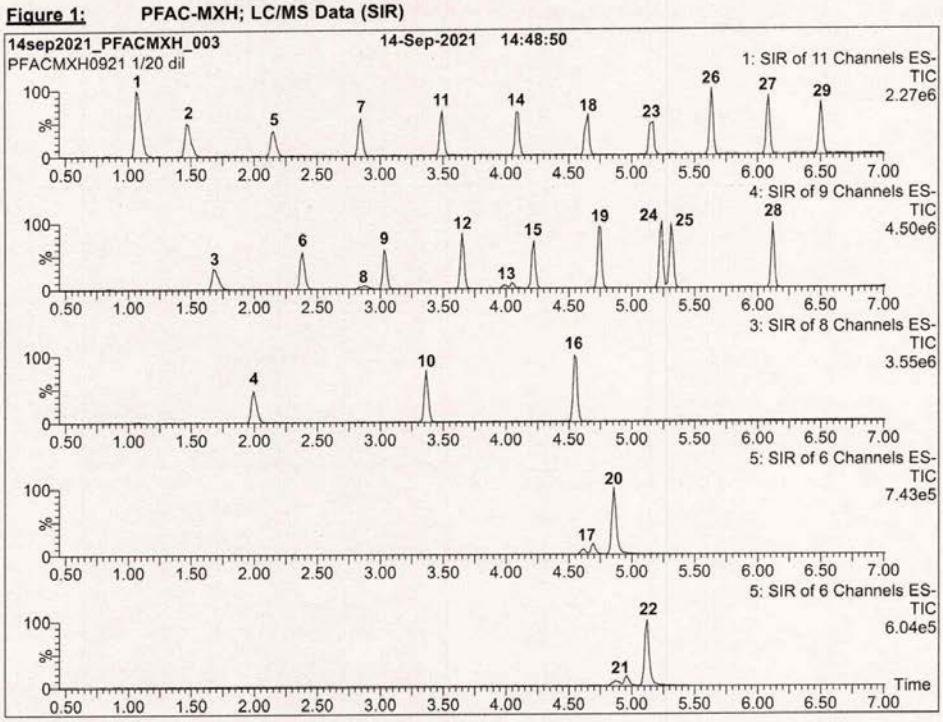
rev0

Table E: **PFOSK; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-octanesulfonate	$CF_3CF_2CF_2CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$	78.8	78.8
2	Potassium 1-trifluoromethylperfluoroheptanesulfonate**	$CF_3CF_2CF_2CF_2CF_2CF_2CF(CF_3)SO_3^-K^+$	1.2	21.1
3	Potassium 2-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF_2CF_2CF_2CF(CF_3)CF_2SO_3^-K^+$	0.6	
4	Potassium 3-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF_2CF_2CF(CF_3)CF_2CF_2SO_3^-K^+$	1.9	
5	Potassium 4-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF_2CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	2.2	
6	Potassium 5-trifluoromethylperfluoroheptanesulfonate	$CF_3CF_2CF(CF_3)CF_2CF_2CF_2CF_2SO_3^-K^+$	4.5	
7	Potassium 6-trifluoromethylperfluoroheptanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$	10.0	
8	Potassium 5,5-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3C(CF_3)CF_2CF_2CF_2CF_2SO_3^-K^+$	0.2	
9	Potassium 4,4-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3CF_2C(CF_3)CF_2CF_2CF_2SO_3^-K^+$	0.03	
10	Potassium 4,5-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	0.4	
11	Potassium 3,5-di(trifluoromethyl)perfluorohexanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	0.07	

* Percent of total perfluorooctanesulfonate isomers only.
** Systematic Name: Potassium perfluorooctane-2-sulfonate.

Figure 1: **PFAC-MXH; LC/MS Data (SIR)**



Conditions for Figure 1:

Waters Acquity Ultra Performance LC
Waters Xevo TQ-S micro MS

Chromatographic Conditions:

Column: Acquity UPLC BEH Shield RP_{18}
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient
Start: 50% H_2O / 50% (80:20 MeOH:ACN)
(both with 10 mM NH_4OAc buffer)
Ramp to 90% organic over 9 min and hold for 2 min
before returning to initial conditions in 1 min.
Time: 15 min

Flow: 300 µL/min

MS Parameters:

Experiment: SIR

Source: Electrospray (negative)
Capillary Voltage (kV) = 2.50
Cone Voltage (V) = variable (2-74)
Desolvation Temperature (°C) = 350
Desolvation Gas Flow (L/hr) = 1000

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Figure 2: **PFAC-MXH; LC/MS/MS Data (Selected MRM Transitions)**

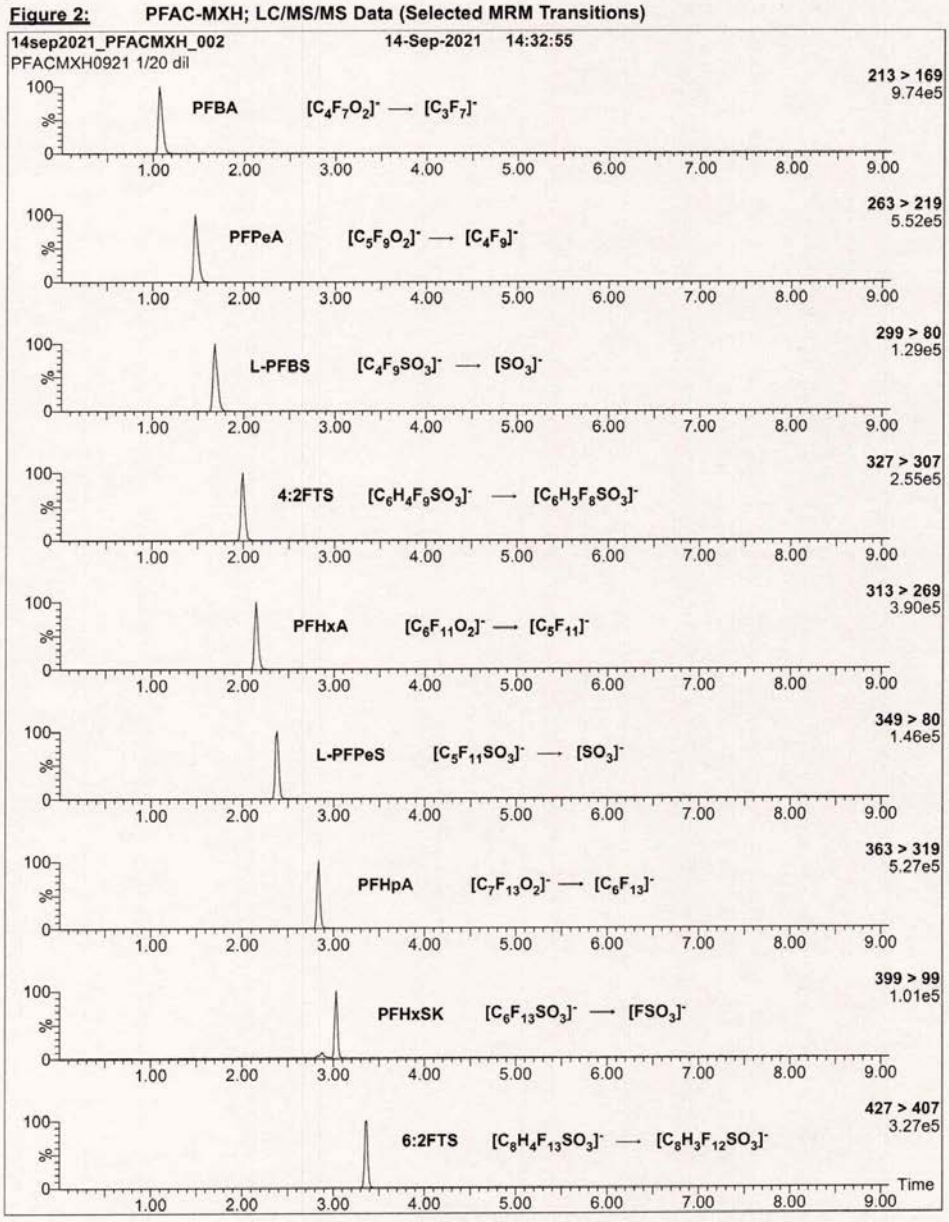

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Table B: **br-NMeFOSAA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	N-methylperfluoro-1-octanesulfonamidoacetic acid	$CF_3(CF_2)_7SO_2N(CH_3)CH_2CO_2H$	76.0	76.0
2	N-methylperfluoro-3-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_3CF(CF_3)(CF_2)_2SO_2N(CH_3)CH_2CO_2H$	0.7	24.0
3	N-methylperfluoro-4-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_2CF(CF_3)(CF_2)_3SO_2N(CH_3)CH_2CO_2H$	2.0	
4	N-methylperfluoro-5-methylheptanesulfonamidoacetic acid	$CF_3CF_2CF(CF_3)(CF_2)_4SO_2N(CH_3)CH_2CO_2H$	6.0	
5	N-methylperfluoro-6-methylheptanesulfonamidoacetic acid	$CF_3CF(CF_3)(CF_2)_5SO_2N(CH_3)CH_2CO_2H$	14.0	
6	N-methylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid	$CF_3C(CF_3)_2(CF_2)_4SO_2N(CH_3)CH_2CO_2H$	0.2	
7	Other Unidentified Isomers		1.1	

* Percent of total N-methylperfluorooctanesulfonamidoacetic acid isomers only.

Table C: **br-NEtFOSAA; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	N-ethylperfluoro-1-octanesulfonamidoacetic acid	$CF_3(CF_2)_7SO_2NCH_2CO_2H$ C_2H_5	77.5	77.5
2	N-ethylperfluoro-3-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_3CF(CF_2)_2SO_2NCH_2CO_2H$ CF_3 C_2H_5	2.3	22.5
3	N-ethylperfluoro-4-methylheptanesulfonamidoacetic acid	$CF_3(CF_2)_2CF(CF_2)_3SO_2NCH_2CO_2H$ CF_3 C_2H_5	2.2	
4	N-ethylperfluoro-5-methylheptanesulfonamidoacetic acid	$CF_3CF_2CF(CF_2)_4SO_2NCH_2CO_2H$ CF_3 C_2H_5	5.4	
5	N-ethylperfluoro-6-methylheptanesulfonamidoacetic acid	$CF_3CF(CF_2)_5SO_2NCH_2CO_2H$ CF_3 C_2H_5	10.4	
6	N-ethylperfluoro-5,5-dimethylhexanesulfonamidoacetic acid	$CF_3C(CF_2)_4SO_2NCH_2CO_2H$ CF_3 C_2H_5	0.3	
7	N-ethylperfluoro-4,5-dimethylhexanesulfonamidoacetic acid	$CF_3CFCF(CF_2)_3SO_2NCH_2CO_2H$ CF_3 C_2H_5	0.3	
8	N-ethylperfluoro-3,5-dimethylhexanesulfonamidoacetic acid	$CF_3CFCF_2CF(CF_2)_2SO_2NCH_2CO_2H$ CF_3 C_2H_5	0.3	
9	Other Unidentified Isomers		1.3	

* Percent of total N-ethylperfluorooctanesulfonamidoacetic acid isomers only.

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXH0921 (5 of 11)
rev0

Table D: **PFHxSK; Isomeric Components and Percent Composition (by ^{19}F-NMR)***

Isomer	Compound	Structure	Percent Composition by ^{19}F-NMR	
1	Potassium perfluoro-1-hexanesulfonate	$CF_3CF_2CF_2CF_2CF_2CF_2SO_3^-K^+$	81.1	81.1
2	Potassium 1-trifluoromethylperfluoropentanesulfonate**	$CF_3CF_2CF_2CF_2CF(CF_3)SO_3^-K^+$	2.9	18.9
3	Potassium 2-trifluoromethylperfluoropentanesulfonate	$CF_3CF_2CF_2CF(CF_3)CF_2SO_3^-K^+$	1.4	
4	Potassium 3-trifluoromethylperfluoropentanesulfonate	$CF_3CF_2CF(CF_3)CF_2CF_2SO_3^-K^+$	5.0	
5	Potassium 4-trifluoromethylperfluoropentanesulfonate	$CF_3CF(CF_3)CF_2CF_2CF_2SO_3^-K^+$	8.9	
6	Potassium 3,3-di(trifluoromethyl)perfluorobutanesulfonate	$CF_3C(CF_3)CF_2CF_2SO_3^-K^+$	0.2	
7	Other Unidentified Isomers		0.5	

* Percent of total perfluorohexanesulfonate isomers only.
** Systematic Name: Potassium perfluorohexane-2-sulfonate.

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

PFAC-MXH

Native Per- and Poly-fluoroalkyl Substance Solution/Mixture

PRODUCT CODE:	PFAC-MXH
LOT NUMBER:	PFACMXH0921
SOLVENT(S):	Methanol / Isopropanol (2%) / Water (<1%)
DATE PREPARED: (mm/dd/yyyy)	09/09/2021
LAST TESTED: (mm/dd/yyyy)	09/14/2021
EXPIRY DATE: (mm/dd/yyyy)	09/14/2026
RECOMMENDED STORAGE:	Refrigerate ampoule

DESCRIPTION:

PFAC-MXH is a solution/mixture of eleven native linear perfluoroalkylcarboxylic acids (C_4-C_{14}), eight native perfluoroalkanesulfonates (C_4, C_5, C_7, C_8, C_{10} and C_{12} linear; C_6 and C_8 linear and branched), three native fluorotelomer sulfonates (4:2, 6:2, and 8:2), two native linear and branched perfluorooctanesulfonamidoacetic acids, and perfluoro-1-octanesulfonamide (FOSA). The components and their concentrations are given in Table A.

The individual components of this mixture all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Table B: Isomeric Components and Percent Composition of br-NMeFOSAA
Table C: Isomeric Components and Percent Composition of br-NEtFOSAA
Table D: Isomeric Components and Percent Composition of PFHxSK
Table E: Isomeric Components and Percent Composition of PFOSK
Figure 1: LC/MS Data (SIR)
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acids to their respective methyl esters.

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2,...x_n$ on which it depends is:

$$u_c(y(x_1, x_2,...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXH0921 (2 of 11)
rev0

Table A: **PFAC-MXH; Components and Concentrations (µg/mL, ± 5% in methanol / isopropanol (2%) / water (<1%))**

Compound	Acronym	Concentration* (µg/mL)	Peak Assignment in Figure 1
Perfluoro-n-butanoic acid	PFBA	4.00	1
Perfluoro-n-pentanoic acid	PFPeA	2.00	2
Perfluoro-n-hexanoic acid	PFHxA	1.00	5
Perfluoro-n-heptanoic acid	PFHpA	1.00	7
Perfluoro-n-octanoic acid	PFOA	1.00	11
Perfluoro-n-nonanoic acid	PFNA	1.00	14
Perfluoro-n-decanoic acid	PFDA	1.00	18
Perfluoro-n-undecanoic acid	PFUdA	1.00	23
Perfluoro-n-dodecanoic acid	PFDoA	1.00	26
Perfluoro-n-tridecanoic acid	PFTrDA	1.00	27
Perfluoro-n-tetradecanoic acid	PFTeDA	1.00	29
Perfluoro-1-octanesulfonamide	FOSA	1.00	25
N-methylperfluorooctanesulfonamidoacetic acid [a]	N-MeFOSAA: linear isomer	0.760	20
	N-MeFOSAA: ∑ branched isomers	0.240	17
N-ethylperfluorooctanesulfonamidoacetic acid [b]	N-EtFOSAA: linear isomer	0.775	22
	N-EtFOSAA: ∑ branched isomers	0.225	21

Compound	Acronym	Concentration* (µg/mL)		Peak Assignment in Figure 1
		as the salt	as the acid	
Potassium perfluoro-1-butanesulfonate	L-PFBS	1.00	0.887	3
Sodium perfluoro-1-pentanesulfonate	L-PFPeS	1.00	0.941	6
Potassium perfluorohexanesulfonate [c]	PFHxSK: linear isomer	0.811	0.741	9
	PFHxSK: ∑ branched isomers	0.189	0.173	8
Sodium perfluoro-1-heptanesulfonate	L-PFHpS	1.00	0.953	12
Potassium perfluorooctanesulfonate [d]	PFOSK: linear isomer	0.788	0.732	15
	PFOSK: ∑ branched isomers	0.211	0.196	13
Sodium perfluoro-1-nonanesulfonate	L-PFNS	1.00	0.962	19
Sodium perfluoro-1-decanesulfonate	L-PFDS	1.00	0.965	24
Sodium perfluoro-1-dodecanesulfonate	L-PFDoS	1.00	0.970	28
Sodium 1H,1H,2H,2H-perfluorohexanesulfonate	4:2FTS	4.00	3.75	4
Sodium 1H,1H,2H,2H-perfluorooctanesulfonate	6:2FTS	4.00	3.80	10
Sodium 1H,1H,2H,2H-perfluorodecanesulfonate	8:2FTS	4.00	3.84	16

[a] See Table B for percent composition of linear and branched N-MeFOSAA isomers.
[b] See Table C for percent composition of linear and branched N-EtFOSAA isomers.
[c] See Table D for percent composition of linear and branched PFHxSK isomers.
[d] See Table E for percent composition of linear and branched PFOSK isomers.

* Concentrations have been rounded to three significant figures.

Certified By: _____ **Date:** 09/23/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

PFACMXH0921 (3 of 11)
rev0

YORK
ANALYTICAL LABORATORIES, INC.

Analytical Standard Record

Standard ID: **Y22B201**

Description:	PFAC-MXH STOCK PFAS EPA 1633	Prepared:	02/17/2022
Standard Type:	Other	**Expires:**	**09/14/2026**
Solvent:	MeOH/IPA/H2O	Prepared By:	Robert Q. Bradley
Final Volume (mls):	1	Department:	PFAS
Vials:	1	Lot No.:	PFACMXH0921
Vendor:	Wellington Laboratories		

Comments:

Analyte	CAS Number	Concentration	Units
1H,1H,2H,2H-Perfluorodecanesulfonic acid	39108-34-4	3.84	ug/mL
1H,1H,2H,2H-Perfluorohexanesulfonic acid	757124-72-4	3.75	ug/mL
1H,1H,2H,2H-Perfluorooctanesulfonic acid	27619-97-2	3.8	ug/mL
N-EtFOSAA	2991-50-6	1	ug/mL
N-MeFOSAA	2355-31-9	1	ug/mL
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	0.965	ug/mL
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	0.953	ug/mL
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	0.962	ug/mL
Perfluoro-1-octanesulfonamide (FOSA)	754-91-6	1	ug/mL
Perfluoro-1-pentanesulfonate (PFPeS)	2706-91-4	0.941	ug/mL
Perfluorobutanesulfonic acid (PFBS)	375-73-5	0.887	ug/mL
Perfluorodecanesulfonic acid(PFDS)	335-77-3	0.965	ug/mL
Perfluorodecanoic acid (PFDA)	335-76-2	1	ug/mL
Perfluorododecanoic acid (PFDoA)	307-55-1	1	ug/mL
Perfluoroheptanoic acid (PFHpA)	375-85-9	1	ug/mL
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	0.914	ug/mL
Perfluorohexanoic acid (PFHxA)	307-24-4	1	ug/mL
Perfluoro-n-butanoic acid (PFBA)	375-22-4	4	ug/mL
Perfluorononanoic acid (PFNA)	375-95-1	1	ug/mL
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	0.928	ug/mL
Perfluorooctanoic acid (PFOA)	335-67-1	1	ug/mL
Perfluoropentanoic acid (PFPeA)	2706-90-3	1	ug/mL
Perfluorotetradecanoic acid (PFTA)	376-06-7	1	ug/mL
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	1	ug/mL
Perfluoroundecanoic acid (PFUnA)	2058-94-8	1	ug/mL

Reviewed By Date

Page 1 of 1

Attachment 4 – Calibration Concentrations, nominal

Calibration Solutions (ng/mL) Compound CS1 (LOQ) CS2 Perfluoroalkyl carboxylic acids			CS3	CS4 (CV[1])	CS5	CS6	CS7[2]
acids							
PFBA	0.8	2	5	10	20	50	250
PFPeA	0.4	1	2.5	5	10	25	125
PFHxA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFHpA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFOA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFNA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFUnA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDoA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFTrDA	0.2	0.5	1.25	2.5	5	12.5	62.5
PFTeDA	0.2	0.5	1.25	2.5	5	12.5	62.5
Perfluoroalkyl sulfonic acids							
PFBS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFPeS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFHxS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFHpS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFOS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFNS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDS	0.2	0.5	1.25	2.5	5	12.5	62.5
PFDoS	0.2	0.5	1.25	2.5	5	12.5	62.5
Fluorotelomer sulfonic acids							
4:2FTS	0.8	2	5	10	20	50	NA
6:2FTS	0.8	2	5	10	20	50	NA
8:2FTS	0.8	2	5	10	20	50	NA
Perfluorooctane sulfonamides							
PFOSA	0.2	0.5	1.25	2.5	5	12.5	62.5
NMeFOSA	0.2	0.5	1.25	2.5	5	12.5	62.5
NEtFOSA	0.2	0.5	1.25	2.5	5	12.5	62.5
Perfluorooctane sulfonamidoacetic acids							
NMeFOSAA	0.2	0.5	1.25	2.5	5	12.5	62.5
NEtFOSAA	0.2	0.5	1.25	2.5	5	12.5	62.5
Perfluorooctane sulfonamide ethanols							
NMeFOSE	2	5	12.5	25	50	125	625
NEtFOSE	2	5	12.5	25	50	125	625
Per- and polyfluoroether carboxylic acids							
HFPO-DA	0.8	2	5	10	20	50	250
ADONA	0.8	2	5	10	20	50	250
PFMPA	0.4	1	2.5	5	10	25	125
PFMBA	0.4	1	2.5	5	10	25	125
NFDHA	0.4	1	2.5	5	10	25	125
Ether sulfonic acids							
9Cl-PF3ONS	0.8	2	5	10	20	50	250
11Cl-PF3OUdS	0.8	2	5	10	20	50	250
PFEESA	0.4	1	2.5	5	10	25	125

Calibration Solutions (ng/mL) Compound CS1 (LOQ) CS2 Fluorotelomer carboxylic			CS3	CS4 (CV[1])	CS5	CS6	CS7[2]
acids							
3:3FTCA	1.0	2.5	6.26	12.5	25	62.4	312
5:3FTCA	5.0	12.5	31.3	62.5	125	312	1560
7:3FTCA	5.0	12.5	31.3	62.5	125	312	1560
Extracted Internal Standard (EIS) Analytes							
$^{13}C_4$-PFBA	10	10	10	10	10	10	10
$^{13}C_5$-PFPeA	5	5	5	5	5	5	5
$^{13}C_5$-PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_4$-PFHpA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_8$-PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_9$-PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_6$-PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_7$-PFUnA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_2$-PFDoA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_2$-PFTeDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_3$-PFBS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_3$-PFHxS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_8$-PFOS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_2$-4:2FTS	5	5	5	5	5	5	5
$^{13}C_2$-6:2FTS	5	5	5	5	5	5	5
$^{13}C_2$-8:2FTS	5	5	5	5	5	5	5
$^{13}C_8$-PFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
D_3-NMeFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
D_5-NEtFOSA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
D_3-NMeFOSAA	5	5	5	5	5	5	5
D_5-NEtFOSAA	5	5	5	5	5	5	5
D_7-NMeFOSE	25	25	25	25	25	25	25
D_9-NEtFOSE	25	25	25	25	25	25	25
$^{13}C_3$-HFPO-DA	10	10	10	10	10	10	10
Non-extracted Internal Standard (NIS) Analytes							
$^{13}C_3$-PFBA	5	5	5	5	5	5	5
$^{13}C_2$-PFHxA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_4$-PFOA	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_5$-PFNA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{13}C_2$-PFDA	1.25	1.25	1.25	1.25	1.25	1.25	1.25
$^{18}O_2$-PFHxS	2.5	2.5	2.5	2.5	2.5	2.5	2.5
$^{13}C_4$-PFOS	2.5	2.5	2.5	2.5	2.5	2.5	2.5

[1] This calibration point is used as the calibration verification (CV)

[2] A minimum of six contiguous calibrations standards are required for linear models and a minimum of seven calibration standards are required for second-order models.

Attachment 5 -HPLC Method Parameters

HPLC Acquisition Method Report

Stroke A
Automatic Stroke Calculation A Yes

Compress A
Compressibility Mode A Compressibility Value Set
Compressibility A 70 10e-6/bar

Compress B
Compressibility Mode B Compressibility Value Set
Compressibility B 90 10e-6/bar

Stop Time
Stoptime Mode Time set
Stoptime 10.00 min

Post Time
Posttime Mode Time set
Posttime 1.50 min

Injection
Injection with needle wash
3.00 µL

Solvent Composition

	Channel	Name 1	Name 2	Selected	Used	Percent
1	A	Water 5mM ammonium acetate		Ch. 1	Yes	90.00 %
2	B	Methanol		Ch. 1	Yes	10.00 %

Timetable

	Time	A	B	Flow
1	3.50 min	50.00 %	50.00 %	0.400 mL/min
2	8.00 min	10.00 %	90.00 %	0.400 mL/min
3	8.50 min	90.00 %	10.00 %	0.400 mL/min

Name: **Column Comp.** Module: **G1316C**

Left Temperature Control
Temperature Control Mode Temperature Set
Temperature 50.0 °C
Enable Analysis Left Temperature
Enable Analysis Left Temperature On Yes
Enable Analysis Left Temperature Value 0.8 °C

Right Temperature Control
Right temperature Control Mode Temperature Set
Right temperature 50.0 °C
Enable Analysis Right Temperature
Enable Analysis Right Temperature On Yes
Enable Analysis Right Temperature Value 0.8 °C

Stop Time
Stoptime Mode As pump/injector

Post Time
Posttime Mode Off

Timetable
Valve Position Position 1 (Port 1 -> 2)
Ready when front door open Yes

Attachment 6 - Triple Quadrupole Acquisition Method

Acquisition Method Report

Agilent Technologies

Acquisition Method Info

Method Name PFAS1633_ACQ_092922.m

Method Path D:\MassHunter\methods\PFAS1633_ACQ_092922.m

Method Description EPA 1633_Target PFAS Isotope Dilution_Acquisition

Device List

HiP Sampler
Binary Pump
Column Comp.
QQQ

MS QQQ Mass Spectrometer

Ion Source	AJS ESI	**Tune File**	D:\MassHunter\Tune\QQQ\G6460C\atunes.TUNE.XML
Stop Mode	No Limit/As Pump	**Stop Time (min)**	1
Time Filter	On	**Time Filter Width (min)**	0.07
LC->Waste Pre Row	N/A	**LC->Waste Post Row**	N/A

Time Segments

Index	Start Time (min)	Scan Type	Ion Mode	Div Valve	Delta EMV	Store	Cycle Time (ms)	Triggered?	MRM Repeats
1	0	DynamicMRM	ESI+Agilent Jet Stream	To MS	350	Yes	550	Yes	3

Time Segment 1

Scan Segments

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
11-Cl-PF3OUdS	No	631	Unit/Enh (6490)	451	Unit/Enh (6490)	Yes	No	170	33	4	7.62	3	Negative
1H,1H,2H,2H-perfluoro-1-decanesulfonate (8 2FTS)	No	527	Unit/Enh (6490)	507	Unit/Enh (6490)	Yes	No	170	28	4	7.14	3	Negative
1H,1H,2H,2H-perfluoro-1-decanesulfonate (8 2FTS)	No	527	Unit/Enh (6490)	80.9	Unit/Enh (6490)	Yes	No	170	40	4	7.14	3	Negative
1H,1H,2H,2H-perfluoro-1-hexanesulfonate (4 2FTS)	No	327	Unit/Enh (6490)	307	Unit/Enh (6490)	Yes	No	162	20	4	4.788	3	Negative
1H,1H,2H,2H-perfluoro-1-hexanesulfonate (4 2FTS)	No	327	Unit/Enh (6490)	80.9	Unit/Enh (6490)	Yes	No	162	36	4	4.788	3	Negative
1H,1H,2H,2H-perfluoro-1-octanesulfonate (6 2FTS)	No	427	Unit/Enh (6490)	407	Unit/Enh (6490)	Yes	No	162	24	4	6.168	3	Negative
1H,1H,2H,2H-perfluoro-1-octanesulfonate (6 2FTS)	No	427	Unit/Enh (6490)	79.7	Unit/Enh (6490)	Yes	No	162	48	4	6.168	3	Negative
3:3FTCA	No	241	Unit/Enh (6490)	177	Unit/Enh (6490)	Yes	No	74	4	4	3.4	3	Negative
3-3FTCA	No	241	Unit/Enh (6490)	117	Unit/Enh (6490)	Yes	No	74	44	4	3.4	3	Negative

Report generation date: 18-Oct-2022 09:01:43 AM

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Acquisition Method Report

Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
5-3FTCA	No	341	Unit/Enh (6490)	237	Unit/Enh (6490)	Yes	No	84	12	4	5.73	3	Negative
5-3FTCA	No	341	Unit/Enh (6490)	217	Unit/Enh (6490)	Yes	No	84	24	4	5.73	3	Negative
7-3FTCA	No	441	Unit/Enh (6490)	337	Unit/Enh (6490)	Yes	No	76	12	4	6.7	3	Negative
7-3FTCA	No	441	Unit/Enh (6490)	317	Unit/Enh (6490)	Yes	No	76	24	4	6.7	3	Negative
9-Cl-PF3ONS	No	531	Unit/Enh (6490)	351	Unit/Enh (6490)	Yes	No	175	29	4	6.89	3	Negative
ADONA	No	377	Unit/Enh (6490)	251	Unit/Enh (6490)	Yes	No	103	9	4	5.62	3	Negative
ADONA	No	377	Unit/Enh (6490)	85	Unit/Enh (6490)	Yes	No	103	37	4	5.62	3	Negative
d3-NMeFOSA	No	515	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	134	20	4	7.17	3	Negative
d3-N-MeFOSAA	No	572.99	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	130	20	4	7.17	3	Negative
d5-NEtFOSA	No	531	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	150	20	4	8.52	3	Negative
d5-NEtFOSA	No	531	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	150	20	4	8.52	3	Negative
d5-N-EtFOSAA	No	589.02	Unit/Enh (6490)	530.9	Unit/Enh (6490)	Yes	No	130	20	4	7.36	3	Negative
d5-N-EtFOSAA	No	589.02	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	130	20	4	7.36	3	Negative
d7-NMeFOSE	No	623	Unit/Enh (6490)	310	Unit/Enh (6490)	Yes	No	150	15	4	8.28	3	Negative
d7-NMeFOSE	No	623	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	88	15	4	8.28	3	Negative
d9-NEtFOSE	No	639	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	150	15	4	8.6	3	Negative
HFPO-DA	No	285	Unit/Enh (6490)	169.1	Unit/Enh (6490)	Yes	No	100	20	4	4.95	3	Negative
M2-4-2FTS	No	329	Unit/Enh (6490)	309	Unit/Enh (6490)	Yes	No	156	20	4	4.787	3	Negative
M2-4-2FTS	No	329	Unit/Enh (6490)	81	Unit/Enh (6490)	Yes	No	156	28	4	4.787	3	Negative
M2-6-2FTS	No	429	Unit/Enh (6490)	409	Unit/Enh (6490)	Yes	No	162	24	4	6.01	3	Negative
M2-6-2FTS	No	429	Unit/Enh (6490)	81	Unit/Enh (6490)	Yes	No	162	40	4	6.01	3	Negative
M2-8-2FTS	No	529	Unit/Enh (6490)	509	Unit/Enh (6490)	Yes	No	165	28	4	6.98	3	Negative
M2-8-2FTS	No	529	Unit/Enh (6490)	81	Unit/Enh (6490)	Yes	No	165	40	4	6.98	3	Negative
M2PFTeDA	No	715	Unit/Enh (6490)	670	Unit/Enh (6490)	Yes	No	62	12	4	8.25	3	Negative
M3-HFPO-DA	No	287	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	90	5	4	4.99	3	Negative
M3PFBA	Yes	216	Unit/Enh (6490)	172	Unit/Enh (6490)	Yes	No	90	5	4	1.2	2	Negative
M3PFBS	No	302	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	114	32	4	3.94	3	Negative
M3PFBS	No	302	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	114	40	4	3.94	3	Negative
M3PFHxS	No	402	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	165	40	4	5.55	3	Negative
M3PFHxS	No	402	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	165	48	4	5.55	3	Negative
M4PFHpA	No	367	Unit/Enh (6490)	322	Unit/Enh (6490)	Yes	No	124	8	4	5.601	3	Negative
M5PFHxA	No	318	Unit/Enh (6490)	273	Unit/Enh (6490)	Yes	No	70	4	4	5.47	3	Negative
M5PFHxA	No	318	Unit/Enh (6490)	120	Unit/Enh (6490)	Yes	No	70	4	4	5.47	3	Negative
M6PFDA	No	519	Unit/Enh (6490)	473.9	Unit/Enh (6490)	Yes	No	59	8	4	6.99	3	Negative
M7PFUdA	No	570	Unit/Enh (6490)	525	Unit/Enh (6490)	Yes	No	64	8	4	7.38	3	Negative
MPFDA	Yes	514.98	Unit/Enh (6490)	469.8	Unit/Enh (6490)	Yes	No	94	5	4	6.972	2	Negative
MPFHxA	Yes	314.99	Unit/Enh (6490)	269.8	Unit/Enh (6490)	Yes	No	86	4	4	4.705	2	Negative
MPFHxA	Yes	314.99	Unit/Enh (6490)	120	Unit/Enh (6490)	Yes	No	86	4	4	4.705	2	Negative
MPFHxS	Yes	403	Unit/Enh (6490)	103	Unit/Enh (6490)	Yes	No	110	37	4	5.63	2	Negative
MPFHxS	Yes	403	Unit/Enh (6490)	84	Unit/Enh (6490)	Yes	No	110	40	4	5.63	2	Negative
MPFNA	Yes	468	Unit/Enh (6490)	423	Unit/Enh (6490)	Yes	No	66	4	4	6.541	2	Negative
MPFOA	Yes	417	Unit/Enh (6490)	372	Unit/Enh (6490)	Yes	No	84	4	4	6.03	2	Negative
MPFOS	Yes	502.96	Unit/Enh (6490)	99	Unit/Enh (6490)	Yes	No	148	48	4	6.57	3	Negative

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Acquisition Method Report

Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
MPFOS	Yes	502.96	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	148	54	4	6.57	3	Negative
NEtFOSA	No	526	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	120	20	4	8.528	3	Negative
NEtFOSA	No	526	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	120	20	4	8.528	3	Negative
N-EtFOSAA	No	584	Unit/Enh (6490)	525.9	Unit/Enh (6490)	Yes	No	130	20	4	7.521	3	Negative
N-EtFOSAA	No	584	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	130	20	4	7.521	3	Negative
NEtFOSE	No	630	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	120	20	4	8.301	3	Negative
NFDHA	No	295	Unit/Enh (6490)	201.1	Unit/Enh (6490)	Yes	No	92	2	4	4.641	3	Negative
NFDHA	No	295	Unit/Enh (6490)	84.9	Unit/Enh (6490)	Yes	No	92	34	4	4.641	3	Negative
NMeFOSA	No	512	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	120	20	4	8.298	3	Negative
NMeFOSA	No	512	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	120	20	4	8.298	3	Negative
N-MeFOSAA	No	570	Unit/Enh (6490)	511.9	Unit/Enh (6490)	Yes	No	150	20	4	7.335	3	Negative
N-MeFOSAA	No	570	Unit/Enh (6490)	418.9	Unit/Enh (6490)	Yes	No	150	20	4	7.335	3	Negative
NMeFOSE	No	616	Unit/Enh (6490)	59	Unit/Enh (6490)	Yes	No	120	20	4	8.301	3	Negative
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	No	506	Unit/Enh (6490)	78	Unit/Enh (6490)	Yes	No	162	48	4	7.59	3	Negative
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	No	507	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	174	48	4	6.59	3	Negative
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	No	507	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	174	54	4	6.59	3	Negative
Perfluoro-1-decanesulfonate (L-PFDS)	No	598.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	156	50	4	7.546	3	Negative
Perfluoro-1-decanesulfonate (L-PFDS)	No	598.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	100	60	4	7.546	3	Negative
Perfluoro-1-heptanesulfonate (L-PFHpS)	No	448.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	162	48	4	6.252	3	Negative
Perfluoro-1-heptanesulfonate (L-PFHpS)	No	448.9	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	162	48	4	6.252	3	Negative
Perfluoro-1-octanesulfonamide (FOSA)	No	497.9	Unit/Enh (6490)	478	Unit/Enh (6490)	Yes	No	156	100	4	7.651	3	Negative
Perfluoro-1-octanesulfonamide (FOSA)	No	497.9	Unit/Enh (6490)	78	Unit/Enh (6490)	Yes	No	156	40	4	7.651	3	Negative
Perfluoro-1-pentanesulfonate (L-PFPeS)	No	348.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	36	4	5.042	3	Negative
Perfluoro-1-pentanesulfonate (L-PFPeS)	No	348.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	40	4	5.042	3	Negative

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Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
Perfluorobutanesulfonic acid (PFBS)	No	298.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	32	4	4.042	3	Negative
Perfluorobutanesulfonic acid (PFBS)	No	298.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	36	4	4.042	3	Negative
Perfluorodecanoic acid (PFDA)	No	513	Unit/Enh (6490)	468.8	Unit/Enh (6490)	Yes	No	90	8	4	7.158	3	Negative
Perfluorodecanoic acid (PFDA)	No	513	Unit/Enh (6490)	268.8	Unit/Enh (6490)	Yes	No	90	16	4	7.158	3	Negative
Perfluorododecanesulfonic acid (PFDoS)	No	699	Unit/Enh (6490)	99	Unit/Enh (6490)	Yes	No	100	60	4	7.984	3	Negative
Perfluorododecanesulfonic acid (PFDoS)	No	699	Unit/Enh (6490)	80	Unit/Enh (6490)	Yes	No	156	50	4	7.984	3	Negative
Perfluorododecanoic acid (PFDoA)	No	613	Unit/Enh (6490)	568.8	Unit/Enh (6490)	Yes	No	90	12	4	7.876	3	Negative
Perfluorododecanoic acid (PFDoA)	No	613	Unit/Enh (6490)	168.7	Unit/Enh (6490)	Yes	No	90	28	4	7.876	3	Negative
Perfluoroheptanoic acid (PFHpA)	No	363	Unit/Enh (6490)	318.8	Unit/Enh (6490)	Yes	No	90	8	4	5.601	3	Negative
Perfluoroheptanoic acid (PFHpA)	No	363	Unit/Enh (6490)	168.9	Unit/Enh (6490)	Yes	No	90	16	4	5.601	3	Negative
Perfluorohexanesulfonic acid (PFHxS)	No	398.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	40	4	5.685	3	Negative
Perfluorohexanesulfonic acid (PFHxS)	No	398.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	44	4	5.685	3	Negative
Perfluorohexanoic acid (PFHxA)	No	313	Unit/Enh (6490)	268.9	Unit/Enh (6490)	Yes	No	70	4	4	4.856	3	Negative
Perfluorohexanoic acid (PFHxA)	No	313	Unit/Enh (6490)	119	Unit/Enh (6490)	Yes	No	70	20	4	4.856	3	Negative
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	No	615	Unit/Enh (6490)	570	Unit/Enh (6490)	Yes	No	53	8	4	7.71	3	Negative
Perfluoro-n-[13C4]butanoic acid (MPFBA)	No	217	Unit/Enh (6490)	172	Unit/Enh (6490)	Yes	No	59	4	4	1.22	3	Negative
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	No	268	Unit/Enh (6490)	223	Unit/Enh (6490)	Yes	No	62	4	4	3.44	3	Negative
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	No	421	Unit/Enh (6490)	376	Unit/Enh (6490)	Yes	No	59	4	4	6.05	3	Negative
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	No	421	Unit/Enh (6490)	172	Unit/Enh (6490)	Yes	No	59	16	4	6.05	3	Negative

Acquisition Method Report

Agilent Technologies

Cpd Name	ISTD?	Prec Ion	MS1 Res	Prod Ion	MS2 Res	Primary	Trigger	Frag (V)	CE (V)	Cell Acc (V)	Ret Time (min)	Ret Window	Polarity
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)	No	472	Unit/Enh (6490)	427	Unit/Enh (6490)	Yes	No	59	8	4	6.56	3	Negative
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)	No	472	Unit/Enh (6490)	223	Unit/Enh (6490)	Yes	No	59	16	4	6.56	3	Negative
Perfluoro-n-butanoic acid (PFBA)	No	213	Unit/Enh (6490)	169.9	Unit/Enh (6490)	Yes	No	70	4	4	1.246	3	Negative
Perfluorononanesulfonate (L-PFNS)	No	548.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	159	48	4	7.174	3	Negative
Perfluorononanesulfonate (L-PFNS)	No	548.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	159	48	4	7.174	3	Negative
Perfluorononanoic acid (PFNA)	No	463	Unit/Enh (6490)	418.8	Unit/Enh (6490)	Yes	No	90	8	4	6.718	3	Negative
Perfluorononanoic acid (PFNA)	No	463	Unit/Enh (6490)	218.8	Unit/Enh (6490)	Yes	No	90	16	4	6.718	3	Negative
Perfluoro-n-pentanoic acid (PFPeA)	No	263	Unit/Enh (6490)	219	Unit/Enh (6490)	Yes	No	62	4	4	3.526	3	Negative
Perfluorooctanesulfonic acid (PFOS)	No	498.9	Unit/Enh (6490)	98.9	Unit/Enh (6490)	Yes	No	150	44	4	6.743	3	Negative
Perfluorooctanesulfonic acid (PFOS)	No	498.9	Unit/Enh (6490)	79.9	Unit/Enh (6490)	Yes	No	150	84	4	6.743	3	Negative
Perfluorooctanoic acid (PFOA)	No	413	Unit/Enh (6490)	368.8	Unit/Enh (6490)	Yes	No	90	8	4	6.202	3	Negative
Perfluorooctanoic acid (PFOA)	No	413	Unit/Enh (6490)	168.9	Unit/Enh (6490)	Yes	No	90	16	4	6.202	3	Negative
Perfluorotetradecanoic acid (PFTA)	No	713	Unit/Enh (6490)	669	Unit/Enh (6490)	Yes	No	110	12	4	8.414	3	Negative
Perfluorotetradecanoic acid (PFTA)	No	713	Unit/Enh (6490)	168.8	Unit/Enh (6490)	Yes	No	110	28	4	8.414	3	Negative
Perfluorotridecanoic acid (PFTrDA)	No	663	Unit/Enh (6490)	618.8	Unit/Enh (6490)	Yes	No	90	12	4	8.164	3	Negative
Perfluoroundecanoic acid (PFUnA)	No	563	Unit/Enh (6490)	519	Unit/Enh (6490)	Yes	No	90	8	4	7.538	3	Negative
Perfluoroundecanoic acid (PFUnA)	No	563	Unit/Enh (6490)	169	Unit/Enh (6490)	Yes	No	90	24	4	7.538	3	Negative
PFEESA	No	315	Unit/Enh (6490)	135	Unit/Enh (6490)	Yes	No	112	26	4	4.464	3	Negative
PFEESA	No	315	Unit/Enh (6490)	83	Unit/Enh (6490)	Yes	No	112	14	4	4.464	3	Negative
PFMBA	No	279	Unit/Enh (6490)	85	Unit/Enh (6490)	Yes	No	75	18	4	4.011	3	Negative
PFMPA	No	229	Unit/Enh (6490)	85	Unit/Enh (6490)	Yes	No	59	6	4	2.15	3	Negative

Scan Parameters

Data Stg	Threshold
Centroid	0

Acquisition Method Report

Agilent Technologies

Source Parameters

Parameter	Value (+)	Value (-)
Gas Temp (°C)	230	230
Gas Flow (l/min)	5	5
Nebulizer (psi)	15	15
SheathGasHeater	350	350
SheathGasFlow	12	12
Capillary (V)	3500	2500
VCharging	500	0

Chromatograms

Chrom Type	Label	Offset	Y-Range
TIC	TIC	0	10000000

Instrument Curves

Actual

Name: HiP Sampler **Module: G4226A**

Auxiliary	
Draw Speed	100.0 µL/min
Eject Speed	400.0 µL/min
Draw Position Offset	1.5 mm
Wait Time After Drawing	1.2 s
Sample Flush Out Factor	5.0
Vial/Well bottom sensing	Yes
Injection	
Injection Mode	Injection with needle wash
Injection Volume	3.00 µL
Needle Wash	
Needle Wash Location	Flush Port
Wash Time	10.0 s
High throughput	
Automatic Delay Volume Reduction	No
Overlapped Injection	
Enable Overlapped Injection	No
Valve Switching	
Valve Movements	0
Valve Switch Time 1	
Switch Time 1 Enabled	No
Valve Switch Time 2	
Switch Time 2 Enabled	No
Valve Switch Time 3	
Switch Time 3 Enabled	No
Valve Switch Time 4	
Switch Time 4 Enabled	No
Stop Time	
Stoptime Mode	As pump/No limit
Post Time	
Posttime Mode	Off

Name: Binary Pump **Module: G4220A**

Flow	0.400 mL/min
Use Solvent Types	No
Stroke Mode	Synchronized
Low Pressure Limit	0.00 bar
High Pressure Limit	600.00 bar
Max. Flow Ramp Up	100.000 mL/min²
Max. Flow Ramp Down	100.000 mL/min²
Expected Mixer	No check

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QAPP
ATTACHMENT 5

RENEE G. COHEN

2815 Covered Bridge Road
Merrick, NY 11566
516-223-9761 FAX 516-223-0983
rgcs70@aol.com

EXPERIENCE **PREMIER ENVIRONMENTAL SERVICES, Merrick, New York**

Perform organic and inorganic data validation according to the various protocols from the USEPA EPA CLP, NYS ASP and USEPA Test Methods for the Evaluation of Solid Waste, Methods for the Chemical Analysis of Water and Waste and the Federal Register. Use the USEPA National Functional Guidelines for Organic and Inorganic Data Validation (where applicable) as well as State (NYS DEC ASP/DUSR) and EPA Region requirements to report on laboratory data quality and data usability. Review and write Quality Assurance Project Plans using Regional and State guidelines for Remedial Investigations, Ground Water Monitoring programs and Superfund Programs. Review data and work plans as they relate to project data quality objectives. Conducts seminars on client specific topics. Perform on-site laboratory QA/QC audits as required by the client and site-specific work plans. Has performed ASTM Phase 1 Assessments for engineering firms when requested.

ENVIRONMENTAL QUALITY SERVICES, INC., Farmingdale, New York

1/2011-11/11 QA Manager
(30 hrs/wk) Perform the data review and report compilation of organic and inorganic data for report preparation. Review data for compliance with method as well as data quality objectives for specific client work plans. Perform departmental audits in compliance with NELAC and internal lab mandates. Revise laboratory logbooks for bench chemists. Revised/updated laboratory SOP's for method compliance. Participate in on-site audits by both state representatives and commercial clients. Coordinate PT studies for analyte certification for laboratory certifications. Insure analyte certification for client project requirements. Responsible for the review of new and/or updated method and implementation of these methods within the laboratory.

ENVIRONMENTAL TESTING LABORATORIES, Farmingdale, New York

8/2010-1/2011 QA Manager
(25-30 hrs/wk) Perform the data review and report compilation of organic and inorganic data for report preparation. Perform departmental audits in compliance with NELAC and internal lab mandates. Revise laboratory logbooks for bench chemists. Revised/updated laboratory SOP's for method compliance. Participate in on-site audits by both state representatives and commercial clients. Coordinate PT studies for analyte certification for laboratory certifications. Insure analyte certification for client project requirements.

SOUTH MALL ANALYTICAL LABORATORIES, Plainview, New York

10/2004-12/2009 QA Manager (Part Time)
(10 hrs/wk) Responsible for the overall QA program at the laboratory. Revised, updated and prepared SOP's for method compliance. Wrote and prepared the annual updates to laboratory Quality Assurance Manual. Perform audits of laboratory systems and methods. Prepare corrective action reports and follow-up to audit deficiencies. Oversee client and agency on-site audits. Contact with clients to discuss sampling plans, regulations, and required analyses. Perform the data review and report compilation of organic and inorganic data for reporting. Revised all laboratory logbooks and methods to comply with EPA and method guidelines. Handled document control of logbooks, SOP's, QAPP's. Performed annual data integrity and ethics seminars for all employees. Report directly to senior management.

ENVIRONMENTAL TESTING LABORATORIES, Farmingdale, New York

5/2002-10/2003 QA Specialist
(20-24 hrs/wk) Performed the data review and report compilation of organic and inorganic data for report preparation. Performed departmental audits in compliance with NELAC and internal lab mandates. Helped to revise laboratory logbooks for bench chemists. Revised/updated laboratory SOP's for method compliance. Participated in on-site audits by both state representatives and commercial clients.

KEYSPAN LABORATORY SERVICES, Brooklyn, New York

2/1999-5/2002 Consultant
Developed laboratory QAPP (in accordance with NELAC) and Chemical Hygiene Plan. Modified and updated laboratory SOP's. Perform audits in the different work areas. Maintained the NYS DOH proficiency program for analytes of interest. Review data for completeness and QC criteria. Implemented client inquiry system. Performed QC training and method training for bench and field chemists. Developed protocols and documentation for field PCB wipe sampling. Responsible for update/maintenance of laboratory state certifications and approvals.

NYTEST ENVIRONMENTAL INC., Port Washington, New York

1994-1998 Quality Assurance Officer
Responsible for the overall quality program at the laboratory. This included the auditing test methods, systems and data reporting. Performed the review of 10% of all data reports prior to submission to client. Oversaw the training program of new employees. Maintain the documentation of the training records. Review and maintain state certification paperwork and SOP files. Update and file annual MDL datum. Worked with sales and customer service to ensure that client needs are met. Respond to client data inquires. Work with state and federal auditors for review of laboratory to receive certification. Successfully lead the laboratory to an Army Corp of Engineer validation.

1989-1993 **ENSECO EAST, Somerset, New Jersey**

QA/QC Scientist - Performed organic and inorganic audits of the laboratory. Performed and coordinated corrections and revisions to data reports. Wrote and reviewed laboratory Quality Assurance Project plans (QAPjP's) for client specific projects. Developed and led seminars for both client and employees on a number of topics including; data quality objectives, data review vs. data validation and laboratory QC. Interacted with clients, project managers and state personnel for regulatory concerns and data/lab issues. Performed lab audits for method compliance and project specific requirements. Acted as the Technical Representative for Ensecos EPA 3/90 Organic CLP Contract.

1988-1989 **INTECH BIOLABS, East Brunswick, New Jersey**

QA/QC Manager - Responsible for the review of all organic and inorganic data. Performed general laboratory and safety audits. Recorded and charted all QA/QC data. Reviewed and assembled all CLP organic data reports.

1986-1988 **INTERNATIONAL TECHNOLOGIES CORPORATION, Edison, New Jersey**

Central Laboratory Chemist - REAC and EERU Contract for the Emergency Response Branch (ERB) of the USEPA. Responsible for the organic and inorganic extraction of environmental samples according to EPA Methods. This included both metals digestion as well as organic extraction's for semivolatiles, pesticides and PCB's. Performed Volatile Organic analyses using Gas Chromatography, Total Petroleum Hydrocarbon Analysis by IR, Metal Analyses by both Graphite Furnace AA and ICP. Field experience included s on site analyses for both metals and GC volatiles.

1985-1986 **U.S. TESTING COMPANY, Hoboken, New Jersey**

Chemist - Responsible for the digestion and analysis of both soil and aqueous samples for metals according to USEPA CLP and SW 846 protocols. Responsible for the analysis of sample digestates using the Varian Graphite Furnace Atomic Absorption Spectrophotometer and a Jerall Ash ICP-61.

Education

B.S. Environmental Science, December 1984
B.S. Biology, May 1984
Old Dominion University, Norfolk, Virginia

20 hours of Chemistry coursework
Graduate Coursework - Rutgers University, New Brunswick, New Jersey
Long Island University at C.W. Post, Glen Cove, New York

Continuing Education

Good Laboratory Practice (GLP) - June 1992, Center for Professional Development, East Brunswick, New Jersey

40 Hour Course, Region II-Edison, NJ (1987)
24 Hour Refresher Course (1988, 1989, 1991)

References

Available upon request.

QAPP
ATTACHMENT 6

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

RACHEL ATAMAN, PG
PRESIDENT

SUMMARY OF EXPERIENCE

Having worked in the environmental field since 2003, I have a vast understating of the Environmental world in New York State. I have worked on multiple projects ranging from Phase I ESAs, Phase II ESAs, Mold Investigations to New York State Brownfield Cleanup Projects. Additionally, I have worked closely with clients to meet their specific project needs such as deadlines, project grants and program requirements. Using my vast experience I also assisted clients in cost estimates for future investigations or remediations.

RELEVANT PROJECT EXPERIENCE

- Recently completed the investigation and Remedial Design for a 3-story building on Moffat Street in Brooklyn. The investigation included the installation and sampling of a series of soil probes, monitoring wells and soil vapor probes. The remedial design included the excavation and property disposal of soils within the foundation and the installation of a vapor barrier beneath the foundation. The Investigation and Remedial Design were approved by the New York City Office of Environmental Projection since the site is going through a zoning variance.
- Was instrumental in entering the first site (Pelham Parkway) into New York City Brownfield Cleanup program (BCP) and bringing Mayor Bloomberg to the Site to announce the start of the City's BCP. I then managed the environmental requirements of the site including City Environmental Quality Review, Phase I ESAs, Site Investigations, Remedial Action Work Plans and the Site Remedation during development.
- Managed a large variety of New York City Brownfield Cleanup Projects including the preparation of the Site Investigation Work Plans, implementation of the fieldwork, the preparation of Site Investigation Report and Remediation Action Plans. Also successfully managed the implementation of Remedial Action Plans during fieldwork. On a site location on North 8th Street in Brooklyn, New York, supervised the removal of 10,000 tons of contaminated soil and the installation of a vapor barrier and sub-slab depressurization system.
- Knowledgeable in the characterization of soil for disposal. On a NYC BCP site located on Third Avenue in the Bronx I successfully investigated and managed the disposal of over 2,000 tons of hazardous soil.
- Sucessfully investigated and managed the closure of hundreds of NYSDEC Spill Sites. For example she recently completely the closusre of a Spill on Anthony Avenue by investigating soils and determining a subsurface impact was not identified. Additionally, successfully remediated a site on Burnside Avenue in Inwood through the removal of three underground storage tanks (USTs), over 100 tons of petroleum contaminated soil, the injection of Oxygen Releasing Compounds (ORC) and the performance of monthly monitoring and quarterly sampling of

groundwater over a 2 year period. The remediation was successful in reducing the levels of contamination in groundwater and the NYSDEC Spill number was closed.

- Supervised the removal of four underground storage tanks for the Rockland County Sewer District and continue to work with the RCSD on the update of the Sewer Plants from underground storage tanks to above ground storage tanks.
- Performed hundreds of Phase I ESA site inspections and has reviewed and written hundreds of Phase I ESAs as well. Based upon the results of the Phase I ESA, determined the proper scope of work for the Phase II ESAs, prepared Phase II ESA scopes of work and proposals and then properly implemented the Phase II ESA.

Technical Responsibilities:
Coordinates work with regulatory agencies and organizes project schedules with clients, project geologists, and field managers.
Phase I and Phase II Environmental Site Assessments
Design and Management of Site Investigations
"E"-Designations
Site Supervision and Remediation
Environmental Assessment Statements
Mold testing
Air Quality/control
Technical review of assessment reports, remedial action plans, mold investigations
Remedial Action:
Implemented numerous Remedial Action Plans. Supervised the construction and managed the operation of numerous hydrocarbon and chlorinated solvent remediation systems for soil and groundwater.

EDUCATION
BS Geology, SUNY Stony Brook, 2001
Affiliations/Certifications:
New York State Professional Geologist License #000900
Certified GPR Operator (Subsurface Interface Radar in Engineering)
10-Hour OSHA Hazard Recognition Training for The Construction Industry Course on 2/13/2018
Certified by ASTM for the E-1527 Phase I ESA

PUBLICATIONS
"Sick Building Syndrome: How it is affecting you and what you can do about it" New York Real Estate Journal.
"Managing Lead-Based Pain in Houses/Apartments" New York Real Estate Journal
"Without Profit Brownfield Development will Not be Sustaniable" New York Real Estate Journal
"What are the options for Soil Disposal During the Construction of the Next Property" New York Real Estate Journal

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

Gabrielle Castro
Senior Project Manager for Touchstone Environmental Geology, P.G.

SUMMARY OF EXPERIENCE

Working in various sections of environmental sciences throughout the course of my career has provided me with an understanding of the local environment in New York State. I have worked on projects including Phase I and Phase II Environmental Site Assessments as well as New York Brownfield Cleanup Projects and investigations for the New York City Office of Environmental Remediation. Throughout my career, I have worked effectively to meet deadlines and program requirements and to ensure accuracy in the data I have collected and analyzed.

RELEVANT PROJECT EXPERIENCE

- Recently completed waste characterization testing as part of a Phase II Investigation on Fulton Street in Brooklyn, New York. The investigation included the installation, sampling, and collection of a series of soil probes. The investigation and Remedial Design were approved by the New York City Office of Environmental Remediation.
- Written a number of for Phase I Environmental Site Assessments (ESAs). Recommendations for Phase II ESAs were then based upon the results of the Phase I ESAs and Phase II ESAs were then properly implemented.
- Knowledgeable in soil disposal characterization. Supervised the excavation and disposal of soil at a site on Jericho Turnpike in Queens, New York.
- Performed a Phase I ESA site inspection at 88 North 1st Street in Brooklyn, New York. Based upon the results of the Phase I ESA, the proper scope of work for a Phase II ESA was determined and a Phase II ESA scope of work and proposal was prepared.
- Managed a variety of New York City Brownfield Cleanup Projects including the preparation of the Remedial Investigation Work Plans, Remedial Action Work Plans, and implementation of the fieldwork.
- Successfully managed the implementation of Remedial Action Plans during fieldwork.

TECHNICAL RESPONSIBILITIES

- Compile information on properties for Phase I and Phase II Environmental Site Assessments.
- Conduct Phase I and Phase II Environmental Site Assessments.
- Management of site investigations and site supervision.
- Conduct air quality/dust monitoring control.
- File Freedom of Information Act (FOIA) Requests with various agencies to collect further information about the properties in order to assess the environmental quality.
- Create reports to evaluate the potential environmental impacts associated with the Subject Properties.

- Supervise disposal of excavated soil.
- Collect indoor and outdoor air samples, soil vapor samples, and soil probe samples for laboratory analyses.
- Air Quality/Control

EDUCATION

Master of Science Integrated Biology, *Hofstra University*, Hempstead, NY, December 2019
Bachelor of Science Biology, *SUNY University at Albany*, Albany, NY, May 2014

CERTIFICATIONS

OSHA Outreach Certification — September 14, 2020
ASTM Training and E-Learning: Phase I & II ESA Workshop — October 1, 2020

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

Mehmet Firat Ataman
Project Manager for Touchstone Environmental Geology, P.G.

RELEVANT PROJECT EXPERIENCE

- Performance of Phase I Environmental Site Assessment (ESA) inspections.
- Performance of Phase II ESA and site investigation fieldwork including the collection of soil, groundwater, vapor samples, indoor/outdoor ambient air samples.
- Installation of monitoring wells and soil vapor/subslab probes.
- Performance of waste characterization studies. Knowledgeable in soil disposal characterization.

TECHNICAL RESPONSIBILITIES

- Compile information on properties for Phase I and Phase II Environmental Site Assessments.
- Conduct Phase I and Phase II Environmental Site Assessments.
- Management of site investigations and site supervision.
- Conduct air quality/dust monitoring control.
- Create reports to evaluate the potential environmental impacts associated with the Subject Properties.
- Supervise disposal of excavated soil.
- Supervise underground storage tank removals.
- Collect indoor and outdoor air samples, soil vapor samples, and soil probe samples for laboratory analyses.
- Air Quality/Control

EDUCATION

Bachelor of Science Computer Science, *SUNY Farmingdale* NY, May 2005

CERTIFICATIONS

OSHA Outreach Certification 08/31/2019
UST A/B Operator

ATTACHMENT E
HEALTH AND SAFETY PLAN

INVESTIGATION HEALTH AND SAFETY PLAN
100 EAST 149TH STREET SITE
100 East 149th Street, Bronx, New York
Block 2351, Lot 35

APRIL 2023

Prepared by:

Touchstone Environmental Geology, P.C.
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Centereach, New York 11720
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(631) 315-2733

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FIGURES

Figure 1 Route to Hospital (Appendix D)

APPENDICES

Appendix A SITE SAFETY ACKNOWLEDGEMENT FORM
Appendix B SITE SAFETY PLAN AMENDMENTS
Appendix C CHEMICAL HAZARDS
Appendix D HOSPITAL INFORMATION, MAP, AND FIELD ACCIDENT REPORT

STATEMENT OF COMMITMENT

This Health and Safety Plan (HASP) has been prepared to ensure that workers are not exposed to risks from hazardous materials during the planned Subsurface Investigation at the Site. This HASP, which applies to persons present at the site actually or potentially exposed to hazardous materials, describes emergency response procedures for actual and potential chemical hazards.

This HASP is also intended to inform and guide personnel entering the work area or exclusion zone. Persons are to acknowledge that they understand the potential hazards and the contents of this Health and Safety policy by signing off on receipt of their individual copy of the document. Contractors and suppliers are retained as independent contractors and are responsible for ensuring the health and safety of their own employees.

1.0 INTRODUCTION AND SITE ENTRY REQUIREMENTS

This document describes the This document describes the health and safety guidelines developed by Touchstone Environmental Geology, P.C. (Touchstone) for the subsurface investigation to be performed to protect on-site personnel, visitors, and the public from physical harm and exposure to hazardous materials or wastes during subsurface investigation activities. In accordance with the Occupational Safety and Health Administration (OSHA) 29 CFR Part 1910.120 Hazardous Waste Operations and Emergency Response Final rule, this HASP, including the attachments, addresses safety and health hazards related to subsurface sample collection activities and is based on the best information available. The HASP may be revised by Touchstone at the request of the client and/or a regulatory agency upon receipt of new information regarding site conditions. Changes will be documented by written amendments signed by Touchstone's project manager, site safety officer and/or the Touchstone health and safety consultant.

1.1 Training Requirements

Personnel entering the exclusion zone or decontamination zone are required to be certified in health and safety practices for hazardous waste site operations as specified in the Federal OSHA Regulations CFR 1910.120e (revised 3/6/90).

Paragraph (e - 3) of the above referenced regulations requires that all on-site management personnel directly responsible for or who supervise employees engaged in hazardous waste operations, must initially receive 8 hours of supervisor training related to managing hazardous waste work.

Paragraph (e - 8) of the above referenced regulations requires that workers and supervisors receive 8 hours of refresher training annually on the items specified in Paragraph (e-1) and/or (e-3).

Additionally, all on-site personnel must receive adequate site-specific training in the form of an on-site Health and Safety briefing prior to participating in field work with emphasis on the following:

- Protection of the adjacent community from hazardous vapors and / or dust which may be released during intrusive activities.
- Identification of chemicals known or suspected to be present on-site and the health effects and hazards of those substances.
- The need for vigilance in personnel protection, and the importance of attention to proper use, fit and care of personnel protective equipment.
- Decontamination procedures.
- Site control including work zones, access, and security.
- Hazards and protection against heat or cold.
- The proper observance of daily health and safety practices, such as entry and exit of work zones and site. Proper hygiene during lunch, break, etc.
- Emergency procedures to be followed in case of fire, explosion, and sudden release of hazardous gases.

Health and Safety meetings will be conducted on a daily basis and will cover protective clothing and other equipment to be used that day, potential and chemical and physical hazards, emergency procedures, and conditions and activities from the previous day.

1.2 Site Safety Plan Acceptance, Acknowledgement, and Amendments

The project superintendent and the site safety officer are responsible for informing personnel (Touchstone employees and/or owner or owners' representatives) entering the work area of the contents of this plan and ensuring that each person signs the safety plan acknowledging the on-site hazards and procedures required to minimize exposure to adverse effects of these hazards. A copy of the Acknowledgement Form is included in **Appendix A**.

Site conditions may warrant an amendment to the HASP. Amendments to the HASP are acknowledged by completing forms included in **Appendix B**.

1.3 Key Personnel – Roles and Responsibilities

Personnel responsible for implementing this Health and Safety Plan are:

Name	Title	Address	Contact Numbers
Rachel Ataman	Project Manager	1919 Middle Country Road, Suite 205, Centereach, NY 11720	(631) 672-3530
Gabrielle Castro	Site Safety Officer	1919 Middle Country Road, Suite 205, Centereach, NY 11720	(631) 885-3873
Firat Ataman	Alternate Site Safety Officer / Field Operations Officer	1919 Middle Country Road, Suite 205, Centereach, NY 11720	(631) 220-9208

The project manager is responsible for overall project administration and, with guidance from the site safety officer, for supervising the implementation of this HASP. The site safety officer will conduct daily (tail gate or toolbox) safety meetings at the project site and oversee daily safety issues. Each subcontractor and supplier (defined as an OSHA employer) is also responsible for the health and safety of its employees. If there is any dispute about health and safety or project activities, on-site personnel will attempt to resolve the issue. If the issue cannot be resolved at the site, then the project manager will be consulted.

The site safety officer is also responsible for coordinating health and safety activities related to hazardous material exposure on-site. The site safety officer is responsible for the following:

1. Educating personnel about information in this HASP and other safety requirements to be observed during site operations, including, but not limited to, decontamination procedures, designation of work zones and levels of protection, air monitoring, fit testing, and emergency procedures dealing with fire and first aid.

2. Coordinating site safety decisions with the project manager.
3. Designating exclusion, decontamination, and support zones on a daily basis.
4. Monitoring the condition and status of known on-site hazards and maintaining and implementing the air quality monitoring program specified in this HASP.
5. Maintaining the work zone entry/exit log and site entry/exit log.
6. Maintaining records of safety problems, corrective measures and documentation of chemical exposures or physical injuries (the site safety officer will document these conditions in a bound notebook and maintain a copy of the notebook on-site).

The person who observes safety concerns and potential hazards that have not been addressed in the daily safety meetings should immediately report their observations/concerns to the site safety officer or appropriate key personnel.

2.0 SITE BACKGROUND AND SCOPE OF WORK

A Remedial Investigation is being conducted at the site to identify and characterize known and potential petroleum contaminants, solvents and metals within the subsurface soils, groundwater, or soil gas at the site.

The results from this investigation will help determine what actions may be required, if any, to prevent exposure to contaminants from the change in use of the site from its current operations to a mixed-use commercial retail and office building. Touchstone notes that a zoning change is not anticipated during redevelopment. The work will be conducted in accordance with the procedures as required by the New York State Brownfield Cleanup Program (NYSBCP) as administered by the New York State Department of Environmental Conservation.

2.1 Remedial Investigation Scope

The subsurface investigation will include the installation of soil borings, groundwater monitoring wells, and / or soil vapor implants. Site sampling locations are shown on **Figures 3, 4, and 5** of the Remedial Investigation Work Plan.

Soil borings will be advanced with Geoprobe direct push equipment and sampled with a 5-foot macro core sampler using disposable acetate liners. Soil will be characterized by an environmental professional and field screened for the presence of volatile organic compounds (VOCs) using a photo-ionization detector (PID). Retained samples from each boring will be submitted to a New York State Department of Health ELAP-certified laboratory for analysis.

The groundwater samples will be collected by installing a temporary monitoring well approximately 85 feet below the water table. Sub-slab soil gas samples will be collected through the installation of soil vapor probes directly beneath the foundation slab of the existing buildings at the Site.

3.0 SITE HAZARD EVALUATION

This section identifies the hazards associated with the proposed scope of work, general physical hazards that can be expected at most sites; and presents a summary of documented or potential chemical hazards at the site. Every effort must be made to reduce or eliminate these hazards. Those that cannot be eliminated must be guarded against using engineering controls and/or personal protective equipment.

This HASP has been developed for work performed at the site in association with a Phase II subsurface investigation. The primary hazards to the field crew will be physical hazards related to sample collection procedures and equipment, and chemical exposures to the sampling crew from exposure to potential contaminants which may be present at the site.

3.1 Physical Hazards

3.1.1 Tripping Hazards

An area of risk associated with on-site activities are presented by uneven ground, concrete, curbstones, or equipment which may be present at the site thereby creating a potential tripping hazard. During intrusive work, care should be taken to mark or remove any obstacles within the exclusion zone).

3.1.2 Cuts and Lacerations

Field activities that involve drilling and boring equipment may result in cuts or lacerations from machinery and tools used in collecting samples, cutting disposable tubing, and opening acetate sleeves and liners. A first aid kit approved by the American Red Cross will be available during all subsurface investigative activities.

3.1.3 Lifting Hazards

Improper lifting by workers is one of the leading causes of industrial injuries. Field workers and drillers may be required to lift heavy objects such as drilling tools, buckets of decontamination water, cement, etc. Therefore, all members of the field crew should be trained in the proper methods of lifting heavy objects. All workers should be cautioned against lifting objects too heavy for one person.

3.1.4 Utility Hazards

Before conducting any subsurface boring or sampling, the drilling contractor will be responsible for locating and verifying all existing utilities at each excavation.

3.1.5 Traffic Hazards

All traffic, vehicular and pedestrian, shall be maintained and protected at all times consistent with local, state, and federal agency regulations regarding such traffic and in accordance with NYCDOT guidelines. The drilling contractor shall carry on his operations without undue interference or delays to traffic. The drilling contractor shall furnish all labor, materials, guards, barricades, signs, lights, and anything else necessary to maintain traffic and to protect his work and the public, during operations.

3.2 Work in Extreme Temperatures

Work under extremely hot or cold weather conditions requires special protocols to minimize the chance that employees will be affected by heat or cold stress.

3.2.1 Heat Stress

The combination of high ambient temperature, high humidity, physical exertion, and personal protective apparel, which limits the dissipation of body heat and moisture, can cause heat stress.

The following prevention, recognition and treatment strategies will be implemented to protect personnel from heat stress. Personnel will be trained to recognize the symptoms of heat stress and to apply the appropriate treatment.

1. Prevention
    a. Provide plenty of fluids. Available in the support zone will be a 50% solution of fruit punch and water or plain water.
    b. Work in Pairs. Individuals should avoid undertaking any activity alone.
    c. Provide cooling devices. A spray hose and a source of water will be provided to reduce body temperature, cool protective clothing and/or act as a quick-drench shower in case of an exposure incident.
    d. Adjustment of the work schedule. As is practical, the most labor-intensive tasks should be carried out during the coolest part of the day.
2. Recognition and Treatment
    a. Heat Rash (or prickly heat):
        Cause: Continuous exposure to hot and humid air, aggravated by chafing clothing.
        Symptoms: Eruption of red pimples around sweat ducts accompanied by intense itching and tingling.
        Treatment: Remove source or irritation and cool skin with water or wet cloths.
    b. Heat Cramps (or heat prostration):
        Cause: Profuse perspiration accompanied by inadequate replenishment of body water and electrolytes.
        Symptoms: Muscular weakness, staggering gait, nausea, dizziness, shallow breathing, pale and clammy skin, approximately normal body temperature.
        Treatment: Perform the following while making arrangement for transport to a medical facility. Remove the worker to a contamination reduction zone. Remove protective clothing. Lie worker down on back in a cool place and raise feet 6 to 12 inches. Keep warm but loosen all clothing. If conscious, provide sips of salt-water solution, using one teaspoon of salt in 12 ounces of water. Transport to a medical facility.
    c. Heat Stroke:
        Cause: Same as heat exhaustion. This is also an extremely serious condition.

Symptoms:	Dry and hot skin, dry mouth, dizziness, nausea, headache, and rapid pulse.
Treatment:	Cool worker immediately by immersing or spraying with cool water or sponge bare skin after removing protective clothing. Transport to hospital.

3.2.2 Cold Exposure
Exposure to cold weather, wet conditions and extreme wind-chill factors may result in excessive loss of body heat (hypothermia) and /or frostbite. To guard against cold exposure and to prevent cold injuries, appropriate warm clothing should be worn, warm shelter must be readily available, rest periods should be adjusted as needed, and the physical conditions of on-site field personnel should be closely monitored. Personnel and supervisors working on-site will be made aware of the signs and symptoms of frost bite and hypothermia such as shivering, reduced blood pressure, reduced coordination, drowsiness, impaired judgment, fatigue, pupils dilated but reactive to light and numbing of the toes and fingers.

3.3 Chemical Hazards
Historic fill, present at the Site was found to contain elevated levels of semi-volatile organic compounds and metals. These "contaminants" are not related to a chemical release occurring on the Site but are inherent in the reworked fill material in the area which contains ash bits or tar and asphalt.

Based on the findings of previous investigations performed at the Site, the following compounds are considered for the Site as potential contaminants: volatile organic compounds (VOCs) related to spills of petroleum fuels and possibly chlorinated solvents, semi-volatile organic compounds (SVOCs) related to petroleum fuel spills and / or inherent in historic fill, polychlorinated biophenyl's (PCBs), and heavy metals such as arsenic, barium, chromium, lead and mercury.

The primary routes of exposure to these contaminants are inhalation, ingestion, and absorption. **Appendix C** includes information sheets for suspected chemicals that may be encountered at the site.

3.3.1 Respirable Dust and Direct Contact with Soil and Groundwater
Dust may be generated from drilling activities. If visible observation detects elevated levels of dust, a program of wetting will be employed by the site safety officer. If elevated dust levels persist, the site safety office will employ dust monitoring using a particulate monitor (Miniram or equivalent). If monitoring detects concentrations greater than the OSHA action level of 100 µg/m3 over daily background, the site safety officer will take corrective actions as defined herein, including the use of water for dust suppression and if this is not effective, requiring workers to wear APRs with efficiency particulate air (HEPA) cartridges.

Absorption pathways for dust and direct contact with soil and groundwater will be mitigated with the implementation of latex gloves, hand washing and decontamination exercises when necessary.

3.3.2 Organic Vapors

Considering the past and present use of the properties, VOCs may be encountered at the site in soil and/or groundwater. Therefore, soil boring activities may cause the release of organic vapors to the atmosphere. The site safety officer will periodically monitor organic vapors with a Photoionization Detector (PID) during drilling activities to determine whether organic vapor concentrations exceed action levels shown below.

PID Response	Action
Sustained readings of 5 ppm or greater	Shut down equipment and allow area to vent. Resume when readings return to background.
Sustained readings of 5 ppm or greater that do not subside after venting	Implement Vapor Release Plan (Section 6.8). Re-evaluate respiratory protection as upgrade may be required.

4.0 PERSONAL PROTECTIVE EQUIPMNENT

Personal protective equipment (PPE) shall be selected in accordance with the site air monitoring program, OSHA 29 CFR 1910.120(c), (g), and 1910.132. Protective equipment shall be NIOSH approved and respiratory protection shall conform to OSHA 29 CFR Part 1910.133 and 1910.134 specifications; head protection shall conform to 1910.135; eye and face protection shall conform to 1910.133; and foot protection shall conform to 1910.136. The only true difference among the levels of protection from D thru B is the addition of the type of respiratory protection. **It is anticipated that work will be performed in Level D PPE.**

4.1 Level D

Level D PPE shall be donned when the atmosphere contains no known hazards and work functions preclude splashes, immersion, or the potential for inhalation of, or contact with, hazardous concentrations of harmful chemicals. Level D PPE consists of:

- standard work uniform, coveralls, or tyvek, as needed;
- steel toe and steel shank work boots;
- high visibility safety vest;
- hard hat;
- gloves, as needed;
- safety glasses;
- hearing protection;
- equipment replacements are available as needed.

4.2 Level C

Level C PPE shall be donned when the concentrations of measured total organic vapors in the breathing zone exceed background concentrations (using a portable OVA, or equivalent), but are less than 5 ppm. The specifications on the APR filters used must be appropriate for contaminants identified or expected to be encountered. Level C PPE shall be donned when the identified contaminants have adequate warning properties and criteria for using APR have been met. Level C PPE consists of:

- chemical resistant or coated tyvek coveralls;
- steel-toe and steel-shank workboots;
- high visibility safety vest;
- chemical resistant overboots or disposable boot covers;
- disposable inner gloves (surgical gloves);
- disposable outer gloves;
- full face APR fitted with organic vapor/dust and mist filters or filters appropriate for the identified or expected contaminants;
- hard hat;
- splash shield, as needed; and,
- ankles/wrists taped with duct tape.

The site safety officer will verify if Level C is appropriate by checking organic vapor concentrations using compound and/or class-specific detector tubes.

The exact PPE ensemble is decided on a site-by-site basis by the Site Safety Officer with the intent to provide the most protective and efficient worker PPE.

4.3 Activity-Specific Levels of Personal Protection

The required level of PPE is activity-specific and is based on air monitoring results (Section 4.0) and properties of identified or expected contaminants. **It is expected that site work will be performed in Level D.** If air monitoring results indicate the necessity to upgrade (i.e dust above 5,000 µg/m3 or sustained VOCs above 5 ppm in the breathing zone) the level of protection engineering controls (i.e., Facing equipment away from the wind and placing site personnel upwind of excavations, active venting, etc.) will be implemented before requiring the use of respiratory protection.

5.0 SITE CONTROL

5.1 Work Zones

The primary purpose of site controls is to establish the perimeter of a hazardous area, to reduce the migration of contaminants into clean areas, and to prevent access or exposure to hazardous materials by unauthorized persons. When operations are to take place involving hazardous materials, the site safety officer will establish an exclusion zone, a decontamination zone, and a support zone. These zones "float" (move around the site) depending on the tasks being performed on any given day. The site safety officer will outline these locations before work begins and when zones change. The site safety officer records this information in the site logbook. **It is expected that for soil boring and sampling activities, identification of an exclusion zone, decontamination zone, and support zone will not be necessary.**

Tasks requiring OSHA 40-hour Hazardous Waste Operations and Emergency Response Operations training are carried out in the exclusion zone. The exclusion zone is defined by the site safety officer but will typically be a 50-foot area around work activities. Gross decontamination (as determined by the site Health and Safety Officer) is conducted in the exclusion zone; all other decontamination is performed in the decontamination zone or trailer.

Protective equipment is removed in the decontamination zone. Disposable protective equipment is stored in receptacles staged in the decontamination zone, and non-disposable equipment is decontaminated. All personnel and equipment exit the exclusion zone through the decontamination zone. If a decontamination trailer is provided the first aid equipment, an eye wash unit, and drinking water are kept in the decontamination trailer.

The support zone is used for vehicle parking, daily safety meetings, and supply storage. Eating, drinking, and smoking are permitted only in the support zone. When a decontamination trailer is not provided, the eye wash unit, first aid equipment, and drinking water are kept at a central location designated by the site safety officer.

6.0 CONTINGENCY PLAN/EMERGENCY RESPONSE PLAN

Site personnel must be prepared in the event of an emergency. Emergencies can take many forms: illnesses, injuries, chemical exposure, fires, explosions, spills, leaks, releases of harmful contaminants, or sudden changes in the weather.

Emergency telephone numbers and a map to the hospital will be posted in the command post. Site personnel should be familiar with the emergency procedures, and the locations of site safety, first aid, and communication equipment.

6.1 Emergency Equipment On-site

Private telephones:	Site personnel.
Two-way radios:	Site personnel where necessary.
Emergency Alarms:	On-site vehicle horns*.
First aid kits:	On-site, in vehicles or office.
Fire extinguisher:	On-site, in office or on equipment.

* Horns: Air horns will be supplied to personnel at the discretion of the project superintendent or site safety officer.

6.2 Emergency Telephone Numbers

General Emergencies	911
New York City Police	911
Maimonides Medical Center	1-718-283-6000
NYSDEC Spills Division	1-800-457-7362
NYSDEC Division of Env. Remediation	1-718-482-4900
NYCDEP	1-718-699-9811
NYC Department of Health	1-212-788-4711
NYC Fire Department	911
National Response Center	1-800-424-8802
Poison Control	1-212-340-4494
Site Safety Officer	1-631-885-3873
Alternate Site Safety Officer	1-631-220-9208

6.3 Personnel Responsibilities During an Emergency

The project manager is primarily responsible for responding to and correcting any emergency situations. However, in the absence of the project manager, the site safety officer shall act as the project manager's on-site designee and perform the following tasks:

- Take appropriate measures to protect personnel including withdrawal from the exclusion zone, evacuate and secure the site, or upgrade/downgrade the level of protective clothing and respiratory protection;
- Ensure that appropriate federal, state, and local agencies are informed, and emergency response plans are coordinated. In the event of fire or explosion, the local fire department should be summoned immediately. If toxic materials are

released to the air, the local authorities should be informed in order to assess the need for evacuation;
- Ensure appropriate decontamination, treatment, or testing for exposed or injured personnel;
- Determine the cause of incidents and make recommendations to prevent recurrence; and,
- Ensure that all required reports have been prepared.

The following key personnel are planned for this project:

- Project Manager Ms. Rachel Ataman (631) 672-3530
- Site Safety Officer Ms. Gabrielle Castro (631) 885-3873
- Alternate Mr. Firat Ataman (631) 220-9208

6.4 Medical Emergencies
A person who becomes ill or injured in the exclusion zone will be decontaminated to the maximum extent possible. If the injury or illness is minor, full decontamination will be completed and first aid administered prior to transport. First aid will be administered while waiting for an ambulance or paramedics. A Field Accident Report (**Appendix D**) must be filled out for any injury.

A person transporting an injured/exposed person to a clinic or hospital for treatment will take the directions to the hospital (**Appendix D**) and information on the chemical(s) to which they may have been exposed (**Appendix C**).

6.5 Fire or Explosion
In the event of a fire or explosion, the local fire department will be summoned immediately. The site safety officer or his designated alternate will advise the fire commander of the location, nature, and identification of the hazardous materials on-site. If it is safe to do so, site personnel may:

- use firefighting equipment available on site; or,
- remove or isolate flammable or other hazardous materials that may contribute to the fire.

6.6 Evacuation Routes
Evacuation routes established by work area locations for each site will be reviewed prior to commencing site operations. As the work areas change, the evacuation routes will be altered accordingly, and the new route will be reviewed.

Under extreme emergency conditions, evacuation is to be immediate without regard for equipment. The evacuation signal will be a continuous blast of a vehicle horn, if possible, and/or by verbal/radio communication. When evacuating the site, personnel will follow these instructions:

- Keep upwind of smoke, vapors, or spill location.

- Exit through the decontamination corridor if possible.
- If evacuation through the decontamination corridor is not possible, personnel should
- remove contaminated clothing once they are in a safe location and leave it near the
- exclusion zone or in a safe place.
- The site safety officer will conduct a head count to ensure that all personnel have been
- evacuated safely. The head count will be correlated to the site and/or exclusion zone
- entry/exit log.
- If emergency site evacuation is necessary, all personnel are to escape the emergency
- situation and decontaminate to the maximum extent practical.

6.7 Spill Control Procedures

Spills associated with site activities may be attributed to project equipment and include gasoline, diesel, and hydraulic oil. In the event of a leak or a release, site personnel will inform their supervisor immediately, locate the source of spillage and stop the flow if it can be done safely. A spill containment kit including absorbent pads, booms and/or granulated speedy dry absorbent material will be available to site personnel to facilitate the immediate recovery of the spilled material. Daily inspections of site equipment components including hydraulic lines, fuel tanks, etc. will be performed by their respective operators as a preventative measure for equipment leaks and to ensure equipment soundness. In the event of a spill, site personnel will immediately notify the NYSDEC (1-800-457-7362), and a spill number will be generated.

6.8 Vapor Release Plan

If work zone organic vapor (excluding methane) exceeds 5 ppm, then a downwind reading will be made either 200 feet from the work zone or at the property line, whichever is closer. If readings at this location exceed 5 ppm over background, the work will be stopped.

If 5 ppm of VOCs are recorded over background on a PID at the property line, then an off-site reading will be taken within 20 feet of the nearest residential or commercial property, whichever is closer. If efforts to mitigate the emission source are unsuccessful for 30 minutes, then the designated site safety officer will:

- contact the local police;
- continue to monitor air every 30 minutes, 20 feet from the closest off-site property. If two successive readings are below 5 ppm (non-methane), off-site air monitoring will be halted.
- All property line and off-site air monitoring locations and results associated with vapor
- releases will be recorded in the site safety logbook.

ATTACHMENT F
COMMUNITY AIR MONITORING PLAN

COMMUNITY AIR MONITORING PLAN
100 EAST 149TH STREET SITE
100 East 149th Street, Bronx, New York
Block 2351, Lot 35

APRIL 2023

Prepared by:

Touchstone Environmental Geology, P.C.
1919 Middle Country Road, Suite 205
Centereach, New York 11720
rachelataman@touchstoneenvironmental.com
(631) 315-2733

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COMMUNITY AIR MONITORING PLAN

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APPENDICES

Appendix A Action Limit Reporting

1.0 INTRODUCTION

This Community Air Monitoring Plan (CAMP) has been prepared for the drilling and sampling activities to be performed under a Remedial Investigation Work Plan (RIWP) at the 100 East 149th Street Site. The CAMP provides measures for protection for the downwind community (i.e., off-site receptors including residences, businesses, and on-site workers not directly involved in the investigation activities) from potential airborne contaminant releases resulting from investigative activities at the site.

Compliance with this CAMP is required during all activities associated with drilling and sampling activities that have the potential to generate airborne particulate matter and volatile organic compounds (VOCs). These activities include drilling and soil and groundwater sampling. This CAMP has been prepared to ensure that investigation activities do not adversely affect passersby, residents, or workers in the area immediately surrounding the Site and to preclude or minimize airborne migration of investigation-related contaminants to off-site areas.

1.1 Regulatory Requirements

This CAMP was established in accordance with the following requirements:

- New York State Department of Health's (NYSDOH) Generic Community Air Monitoring Plan as presented in DER-10 Technical Guidance for Site Investigation and Remediation (NYSDEC May 3, 2010). This guidance specifies that a community air-monitoring program shall be implemented to protect the surrounding community and to confirm that the work does not spread contamination off-site through the air;

- New York State Department of Environmental Conservation (NYSDEC) Technical and Guidance Memorandum (TAGM) #4031 - Fugitive Dust Suppression and Particulate Monitoring Program at Inactive Hazardous Waste Sites: This guidance provides a basis for developing and implementing a fugitive dust suppression and particulate monitoring program as an element of a hazardous waste site's health and safety program.

2.0 AIR MONITORING

Petroleum VOCs, SVOCs, and metals are the contaminants of concern at the Site along with metals in historic fill. Touchstone notes that the list of contaminants of concern will be updated as results are received during the remedial investigation. The appropriate method to monitor air for these constituents during investigation activities is through real-time VOC and air particulate (dust) monitoring.

2.1 Meteorological Data

At a minimum, wind direction will be evaluated at the start of each workday, noon of each workday, and the end of each workday. These readings will be utilized to position the monitoring equipment in appropriate upwind and downwind locations.

2.2 Community Air Monitoring Requirements

To establish ambient air background concentrations, air will be monitored at several locations around the site perimeter before activities begin. These points will be monitored periodically in series during the site work. When the drilling area is within 20 feet of potentially exposed populations or occupied structures, the perimeter monitoring points will be located to represent the nearest potentially exposed individuals at the downwind location.

Fugitive respirable dust will be monitored using a MiniRam Model PDM-3 aerosol monitor (or equivalent). Air will be monitored for VOCs with a portable Ionscience 3000 photoionization detector (PID), or equivalent. All air monitoring data will be documented in a site logbook by the designated site safety officer. The site safety officer or delegate must ensure that air monitoring instruments are calibrated and maintained in accordance with manufacturer's specifications. All instruments will be zeroed daily and checked for accuracy. A daily log will be kept. If additional monitoring is required, the protocols will be developed and appended to this plan.

3.0 VOC MONITORING, RESPONSE LEVELS, AND ACTIONS

Volatile organic compounds (VOCs) will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present.

The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.
- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown. All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

All readings will be recorded and made available for NYSDEC and NYSDOH personnel to review. If an exceedance of the Action Limits occurs, an Action Limit Report, as shown in **Appendix A**, will be completed.

3.1 Potential Corrective Measures and VOC Suppression Techniques

If the 15-minute integrated VOC level at the downwind location persists at a concentration that exceeds the upwind level by more than 5 ppm but less than 25 ppm during remediation activities, then vapor suppression techniques will be employed. The following techniques, or others, may be employed to mitigate the generation and migration of fugitive organic vapors:

- collection of purge water in covered containers;
- storage of excess sample and drill cuttings in drums or covering with plastic.

4.0 PARTICULATE MONITORING

Air monitoring for particulates (i.e., dust) will be performed continuously during drilling activities using both air monitoring equipment and visual observation at upwind and downwind locations. Monitoring equipment capable of measuring particulate matter smaller than 10 microns (PM10) and capable of integrating (averaging) over periods of 15 minutes or less will be set up at upwind (i.e., background) and downwind locations, at heights approximately four to five feet above land surface (i.e., the breathing zone). Monitoring equipment will be MIE Data Ram monitors, or equivalent. The audible alarm on the particulate monitoring device will be set at 90 micrograms per cubic meter (µg/m3). This setting will allow proactive evaluation of worksite conditions prior to reaching the action level of 100 µg/m3 above background. The monitors will be calibrated at least once per day prior to work activities and recalibrated as needed thereafter. In addition, fugitive dust migration will be visually assessed during all intrusive work activities.

The following summarizes particulate action levels and the appropriate responses:

- If the downwind PM-10 particulate level is 100 µg/m3 greater than background (upwind perimeter) for the 15-minute period, or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 µg/m3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 µg/m3 above the upwind level, work must be stopped, and an evaluation of activities initiated. Work can resume provided that dust suppression measures (as described in Section 2.3.1 below) and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 µg/m3 of the upwind level and in preventing visible dust migration.

All readings will be recorded and be available for NYSDEC and NYSDOH personnel to review. If an exceedance of the Action Limits occurs, an Action Limit Report as shown in **Appendix A** will be completed.

4.1 Potential Particulate Suppression Techniques

If the integrated particulate level at the downwind location exceeds the upwind level by more than 100 µg/m3 at any time during drilling activities, then dust suppression techniques will be employed. The following techniques, or others, may be employed to mitigate the generation and migration of fugitive dusts:

- Placement of drill cuttings in drums or covering stockpiles with plastic;

- Misting of the drilling area with a fine water spray from a hand-held spray bottle

Work may continue with dust suppression techniques provided that downwind PM10 levels are not more than 150 µg/m3 greater than the upwind levels.

There may also be situations where the dust is generated by drilling activities and migrates to downwind locations but is not detected by the monitoring equipment at or above the action level. Therefore, if dust is observed leaving the working area, dust suppression techniques such as those listed above will be employed.

If dust suppression techniques do not lower particulates to below 150 µg/m3, or visible dust persists, work will be suspended until appropriate corrective measures are identified and implemented to remedy the situation.

All air monitoring readings will be recorded in the field logbook and will be available for the NYSDEC and NYSDOH personnel to review.

5.0 DATA QUALITY ASSURANCE

5.1 Calibration

Instrument calibration shall be documented on instrument calibration and maintenance sheets or in the designated field logbook. All instruments shall be calibrated as required by the manufacturer. Calibration checks may be used during the day to confirm instrument accuracy. Duplicate readings may be taken to confirm individual instrument response.

5.2 Operations

All instruments shall be operated in accordance with the manufacturer's specifications. Manufacturers' literature, including an operations manual for each piece of monitoring equipment will be maintained on-site by the SSO for reference.

5.3 Data Review

The SSO will interpret all monitoring data based the established criteria and his/her professional judgment. The SSO shall review the data with the PM to evaluate the potential for worker exposure, upgrades/downgrades in level of protection, comparison to direct reading instrumentation and changes in the integrated monitoring strategy.

Monitoring and sampling data, along with all sample documentation will be periodically reviewed by the PM.

6.0 RECORDS AND REPORTING

All air readings must be recorded on daily air monitoring log sheets and made available for review by personnel from NYSDEC and NYSDOH. Data will be reported to the NYSDEC and NYSDOH Project Managers on a daily or weekly basis, with the exception being exceedances of action levels. Any exceedances and Corrective Actions will be reported on the same business day of occurrence. The reports will also include a figure depicting work zones, wind direction, and other appropriate site information (i.e., specific work activities).

Appendix B

Resumes

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

RACHEL ATAMAN, PG
PRESIDENT

SUMMARY OF EXPERIENCE

Having worked in the environmental field since 2003, I have a vast understating of the Environmental world in New York State. I have worked on multiple projects ranging from Phase I ESAs, Phase II ESAs, Mold Investigations to New York State Brownfield Cleanup Projects. Additionally, I have worked closely with clients to meet their specific project needs such as deadlines, project grants and program requirements. Using my vast experience I also assisted clients in cost estimates for future investigations or remediations.

RELEVANT PROJECT EXPERIENCE

- Recently completed the investigation and Remedial Design for a 3-story building on Moffat Street in Brooklyn. The investigation included the installation and sampling of a series of soil probes, monitoring wells and soil vapor probes. The remedial design included the excavation and property disposal of soils within the foundation and the installation of a vapor barrier beneath the foundation. The Investigation and Remedial Design were approved by the New York City Office of Environmental Projection since the site is going through a zoning variance.
- Was instrumental in entering the first site (Pelham Parkway) into New York City Brownfield Cleanup program (BCP) and bringing Mayor Bloomberg to the Site to announce the start of the City's BCP. I then managed the environmental requirements of the site including City Environmental Quality Review, Phase I ESAs, Site Investigations, Remedial Action Work Plans and the Site Remedation during development.
- Managed a large variety of New York City Brownfield Cleanup Projects including the preparation of the Site Investigation Work Plans, implementation of the fieldwork, the preparation of Site Investigation Report and Remediation Action Plans. Also successfully managed the implementation of Remedial Action Plans during fieldwork. On a site location on North 8th Street in Brooklyn, New York, supervised the removal of 10,000 tons of contaminated soil and the installation of a vapor barrier and sub-slab depressurization system.
- Knowledgeable in the characterization of soil for disposal. On a NYC BCP site located on Third Avenue in the Bronx I successfully investigated and managed the disposal of over 2,000 tons of hazardous soil.
- Successfully investigated and managed the closure of hundreds of NYSDEC Spill Sites. For example she recently completely the closusre of a Spill on Anthony Avenue by investigating soils and determining a subsurface impact was not identified. Additionally, successfully remediated a site on Burnside Avenue in Inwood through the removal of three underground storage tanks (USTs), over 100 tons of petroleum contaminated soil, the injection of Oxygen Releasing Compounds (ORC) and the performance of monthly monitoring and quarterly sampling of

groundwater over a 2 year period. The remediation was successful in reducing the levels of contamination in groundwater and the NYSDEC Spill number was closed.

- Supervised the removal of four underground storage tanks for the Rockland County Sewer District and continue to work with the RCSD on the update of the Sewer Plants from underground storage tanks to above ground storage tanks.
- Performed hundreds of Phase I ESA site inspections and has reviewed and written hundreds of Phase I ESAs as well. Based upon the results of the Phase I ESA, determined the proper scope of work for the Phase II ESAs, prepared Phase II ESA scopes of work and proposals and then properly implemented the Phase II ESA.

Technical Responsibilities:
Coordinates work with regulatory agencies and organizes project schedules with clients, project geologists, and field managers.
Phase I and Phase II Environmental Site Assessments
Design and Management of Site Investigations
"E"-Designations
Site Supervision and Remediation
Environmental Assessment Statements
Mold testing
Air Quality/control
Technical review of assessment reports, remedial action plans, mold investigations
Remedial Action:
Implemented numerous Remedial Action Plans. Supervised the construction and managed the operation of numerous hydrocarbon and chlorinated solvent remediation systems for soil and groundwater.

EDUCATION
BS Geology, SUNY Stony Brook, 2001
Affiliations/Certifications:
New York State Professional Geologist License #000900
Certified GPR Operator (Subsurface Interface Radar in Engineering)
10-Hour OSHA Hazard Recognition Training for The Construction Industry Course on 2/13/2018
Certified by ASTM for the E-1527 Phase I ESA

PUBLICATIONS
"Sick Building Syndrome: How it is affecting you and what you can do about it" New York Real Estate Journal.
"Managing Lead-Based Pain in Houses/Apartments" New York Real Estate Journal
"Without Profit Brownfield Development will Not be Sustaniable" New York Real Estate Journal
"What are the options for Soil Disposal During the Construction of the Next Property" New York Real Estate Journal

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

Gabrielle Castro
Project Manager for Touchstone Environmental Geology, P.G.

SUMMARY OF EXPERIENCE

Working in various sections of environmental sciences throughout the course of my career has provided me with an understanding of the local environment in New York State. I have worked on projects including Phase I and Phase II Environmental Site Assessments as well as New York Brownfield Cleanup Projects and investigations for the New York City Office of Environmental Remediation. Throughout my career, I have worked effectively to meet deadlines and program requirements and to ensure accuracy in the data I have collected and analyzed.

EMPLOYMENT EXPERIENCE

Atlantic States Marine Fisheries Commission, *Data Entry Clerk* February 2019 – August 2020
Touchstone Environmental Geology, P.G., *Project Manager* November 2019 – Present

RELEVANT PROJECT EXPERIENCE

- Recently completed waste characterization testing as part of a Phase II Investigation on Fulton Street in Brooklyn, New York. The investigation included the installation, sampling, and collection of a series of soil probes. The investigation and Remedial Design were approved by the New York City Office of Environmental Remediation.
- Written a number of for Phase I Environmental Site Assessments (ESAs). Recommendations for Phase II ESAs were then based upon the results of the Phase I ESAs and Phase II ESAs were then properly implemented.
- Knowledgeable in soil disposal characterization. Supervised the excavation and disposal of soil at a site on Jericho Turnpike in Queens, New York.
- Performed a Phase I ESA site inspection at 88 North 1st Street in Brooklyn, New York. Based upon the results of the Phase I ESA, the proper scope of work for a Phase II ESA was determined and a Phase II ESA scope of work and proposal was prepared.

TECHNICAL RESPONSIBILITIES

- Compile information on properties for Phase I and Phase II Environmental Site Assessments.
- Conduct Phase I and Phase II Environmental Site Assessments.
- Management of site investigations and site supervision.
- Conduct air quality/dust monitoring control.
- File Freedom of Information Act (FOIA) Requests with various agencies to collect further information about the properties in order to assess the environmental quality.

- Create reports to evaluate the potential environmental impacts associated with the Subject Properties.
- Supervise disposal of excavated soil.
- Collect indoor and outdoor air samples, soil vapor samples, and soil probe samples for laboratory analyses.
- Air Quality/Control

EDUCATION

Master of Science Integrated Biology, *Hofstra University*, Hempstead, NY, December 2019
Bachelor of Science Biology, *SUNY University at Albany*, Albany, NY, May 2014

CERTIFICATIONS

OSHA Outreach Certification	September 14, 2020
ASTM Training and E-Learning: Phase I & II ESA Workshop	October 1, 2020

TOUCHSTONE
ENVIRONMENTAL GEOLOGY P.C.
INNOVATIVE AFFORDABLE ENVIRONMENTAL SOLUTIONS

Mehmet Firat Ataman
Project Manager for Touchstone Environmental Geology, P.G.

RELEVANT PROJECT EXPERIENCE

- Performance of Phase I Environmental Site Assessment (ESA) inspections.
- Performance of Phase II ESA and site investigation fieldwork including the collection of soil, groundwater, vapor samples, indoor/outdoor ambient air samples.
- Installation of monitoring wells and soil vapor/subslab probes.
- Performance of waste characterization studies. Knowledgeable in soil disposal characterization.

TECHNICAL RESPONSIBILITIES

- Compile information on properties for Phase I and Phase II Environmental Site Assessments.
- Conduct Phase I and Phase II Environmental Site Assessments.
- Management of site investigations and site supervision.
- Conduct air quality/dust monitoring control.
- Create reports to evaluate the potential environmental impacts associated with the Subject Properties.
- Supervise disposal of excavated soil.
- Supervise underground storage tank removals.
- Collect indoor and outdoor air samples, soil vapor samples, and soil probe samples for laboratory analyses.
- Air Quality/Control

EDUCATION

Bachelor of Science Computer Science, *SUNY Farmingdale* NY, May 2005

CERTIFICATIONS

OSHA Outreach Certification 08/31/2019
UST A/B Operator

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

Appendix C

Waste Manifests and Analytical Data for Investigation Derived Waste

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
N / A	1	(267) 406-0083	45163

GENERATOR

5. Generator's Name and Mailing Address
RGDC 149 LLC
214 W. 39th Street, Suite 1200
New York NY 10018
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number
Innovative Recycling Technologies, Inc. — NYR000134940

7. Transporter 2 Company Name — U.S. EPA ID Number
Republic Environmental Systems (Trans Group) LLC — PAD982661381

8. Designated Facility Name and Site Address — U.S. EPA ID Number
Republic Environmental Systems (PA), LLC
2869 Sandstone Drive
Hatfield PA 19440
Facility's Phone: 215 822-8065 — PAD085690592

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Soil Non-DOT Regulated Material	004	DM	1,200	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
9.1)2400005425
Desc#:

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X Jacqueline G. Estrada — Signature: X [signature] — Month: 2 — Day: 15 — Year: 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: STEPHEN MORAN — Signature: [signature] — Month: 2 — Day: 15 — Year: 24

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 01/31/2024
Client Project ID: 220293 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0665

Revision No. 2.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 01/31/2024
Client Project ID: 220293 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0665

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 09, 2023 and listed below. The project was identified as your project: **220293 100 East 149th St. Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K0665-01	23SP3 (0-2.5 ft)	Soil	11/08/2023	11/09/2023
23K0665-02	23SP3 (8-12 ft)	Soil	11/08/2023	11/09/2023
23K0665-03	23SP3 (12-14 ft)	Soil	11/08/2023	11/09/2023
23K0665-04	23SP3 (25-30 ft)	Soil	11/08/2023	11/09/2023
23K0665-05	23SP4 (0-5 ft)	Soil	11/08/2023	11/09/2023
23K0665-06	23SP4 (12-14 ft)	Soil	11/08/2023	11/09/2023
23K0665-07	23SP4 (14-16 ft)	Soil	11/08/2023	11/09/2023
23K0665-08	23SP4 (27.5-30 ft)	Soil	11/08/2023	11/09/2023
23K0665-09	Field Blank	Water	11/08/2023	11/09/2023
23K0665-10	Trip Blank	Water	11/08/2023	11/09/2023

General Notes for York Project (SDG) No.: 23K0665

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 01/31/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **23SP3 (0-2.5 ft)** **York Sample ID:** **23K0665-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.014**	CCVE, ICVE	mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0086	0.017	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.2 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.0 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*111 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:26	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:26	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:26	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.0448**	J	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH-
56-55-3	**Benzo(a)anthracene**	**0.150**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
50-32-8	**Benzo(a)pyrene**	**0.141**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
205-99-2	**Benzo(b)fluoranthene**	**0.131**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
191-24-2	**Benzo(g,h,i)perylene**	**0.125**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
207-08-9	**Benzo(k)fluoranthene**	**0.0989**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
218-01-9	**Chrysene**	**0.140**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
206-44-0	**Fluoranthene**	**0.292**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.115**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
85-01-8	**Phenanthrene**	**0.171**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
129-00-0	**Pyrene**	**0.281**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*9.72 %*	S-08, S-Alk	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*20.5 %*	S-08, S-Alk	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*27.4 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*27.4 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*3.92 %*	S-08, S-Alk	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*28.7 %*		*24-116*

Sample Information

Client Sample ID: **23SP3 (0-2.5 ft)** **York Sample ID:** **23K0665-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0187	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 01:23	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*58.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.120	0.192	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0574	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**0.201**	J	ug/kg dry	0.186	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**2.38**		ug/kg dry	0.181	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.177	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.135	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.112	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.160	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.210	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.118	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.645	0.824	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.818	0.832	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.118	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.151	0.386	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.209	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0672	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.645	0.813	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.659	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.337	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.267	0.811	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.189	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.183	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.134	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.687	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.27	5.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.63	5.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.662	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.755	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ

Sample Information

Client Sample ID: **23SP3 (0-2.5 ft)** **York Sample ID:** **23K0665-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
	Surrogate: M3PFBS	*55.4 %*			*25-150*						
	Surrogate: M5PFHxA	*66.7 %*			*25-150*						
	Surrogate: M4PFHpA	*73.9 %*			*25-150*						
	Surrogate: M3PFHxS	*90.0 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.8 %*			*25-150*						
	Surrogate: M6PFDA	*66.6 %*			*25-150*						
	Surrogate: M7PFUdA	*58.7 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*48.4 %*			*25-150*						
	Surrogate: M2PFTeDA	*44.9 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.71 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*89.3 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*61.1 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*46.7 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*27.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*31.9 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*31.9 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*53.5 %*			*25-200*						
	Surrogate: M9PFNA	*65.2 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*12.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*34.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*54.3 %*			*25-150*						
	Surrogate: M3HFPO-DA	*69.2 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*97.8 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*131 %*			*25-150*						

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
50-29-3	**4,4'-DDT**	**4.94**		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 21:37	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	35.9	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 21:37	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
72-20-8	Endrin	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.98	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	90.9	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8350**		mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.28	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**3.80**		mg/kg dry	1.37	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**478**		mg/kg dry	2.27	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.273	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**47900**	B	mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**18.2**		mg/kg dry	0.455	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.02**		mg/kg dry	0.364	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**52.4**		mg/kg dry	1.82	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**12600**		mg/kg dry	22.8	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**73.4**		mg/kg dry	0.455	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4880**		mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**216**		mg/kg dry	0.455	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**14.6**		mg/kg dry	0.907	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1320**		mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.42**		mg/kg dry	2.28	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.459	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1500**		mg/kg dry	45.5	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.28	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**48.8**		mg/kg dry	0.907	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**41.8**		mg/kg dry	2.27	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.286**		mg/kg dry	0.0328	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**2.36**		mg/kg dry	0.546	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.8**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.546	1	EPA 9014/9010C	11/14/2023 12:11	11/14/2023 19:25	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.6**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP3 (8-12 ft)** **York Sample ID:** **23K0665-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND	ICVE, QL-02, CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.092	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/14/2023 09:00	11/14/2023 12:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02, CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0069	0.014	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.4 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.5 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,PADEP-68-04440
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,PADEP-68-04440
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E, CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND	CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.178	0.355	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	**Anthracene**	**0.0801**	J	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.355	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH-
56-55-3	**Benzo(a)anthracene**	**0.698**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
50-32-8	**Benzo(a)pyrene**	**0.935**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
205-99-2	**Benzo(b)fluoranthene**	**0.767**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
191-24-2	**Benzo(g,h,i)perylene**	**0.660**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
207-08-9	**Benzo(k)fluoranthene**	**0.625**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
218-01-9	**Chrysene**	**0.704**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
53-70-3	**Dibenzo(a,h)anthracene**	**0.175**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-84-0	**Di-n-octyl phthalate**	**0.0893**	CAL-E, CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH-
206-44-0	**Fluoranthene**	**0.775**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.764**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.277**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**0.939**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*71.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*87.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.1 %*	*24-116*

Sample Information

Client Sample ID: **23SP3 (8-12 ft)** **York Sample ID:** **23K0665-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 01:40	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*50.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.119	0.189	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0566	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.112	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.191	0.195	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.184	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**1.38**		ug/kg dry	0.178	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.202	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.204	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.211	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.174	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.133	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.110	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.158	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.207	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.116	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.156	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.166	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.204	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.635	0.812	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.806	0.820	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.116	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.148	0.380	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.206	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0662	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.103	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.168	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.635	0.801	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.649	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.332	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.263	0.799	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.186	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.180	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.132	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.677	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.24	5.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.60	5.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.652	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.192	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.744	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.211	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ

Sample Information

Client Sample ID: **23SP3 (8-12 ft)** **York Sample ID:** **23K0665-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
	Surrogate: M3PFBS	*93.8 %*		*25-150*							
	Surrogate: M5PFHxA	*120 %*		*25-150*							
	Surrogate: M4PFHpA	*135 %*		*25-150*							
	Surrogate: M3PFHxS	*144 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*		*25-150*							
	Surrogate: M6PFDA	*115 %*		*25-150*							
	Surrogate: M7PFUdA	*115 %*		*25-150*							
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*91.0 %*		*25-150*							
	Surrogate: M2PFTeDA	*80.4 %*		*10-150*							
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*22.8 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*109 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*132 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*64.8 %*		*10-150*							
	Surrogate: d3-N-MeFOSAA	*65.6 %*		*25-150*							
	Surrogate: d5-N-EtFOSAA	*81.5 %*		*25-150*							
	Surrogate: M2-6:2 FTS	*80.4 %*		*25-200*							
	Surrogate: M2-8:2 FTS	*135 %*		*25-200*							
	Surrogate: M9PFNA	*110 %*		*25-150*							
	Surrogate: M2-4:2 FTS	*37.0 %*		*25-150*							
	Surrogate: d-N-MeFOSA	*34.6 %*		*25-150*							
	Surrogate: d-N-EtFOSA	*60.0 %*		*25-150*							
	Surrogate: M3HFPO-DA	*94.5 %*		*25-150*							
	Surrogate: d9-N-EtFOSE	*93.6 %*		*25-150*							
	Surrogate: d7-N-MeFOSE	*111 %*		*25-150*							

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	35.7	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 21:58	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
72-20-8	Endrin	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.92	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	90.3	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.0 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 14:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP3 (8-12 ft)** **York Sample ID:** **23K0665-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6830**		mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.00**		mg/kg dry	1.36	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**200**		mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.271	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**30500**	B	mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**16.6**		mg/kg dry	0.452	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.02**		mg/kg dry	0.361	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**53.9**		mg/kg dry	1.81	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**16000**		mg/kg dry	22.6	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**186**		mg/kg dry	0.452	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**7320**		mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**223**		mg/kg dry	0.452	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**14.9**		mg/kg dry	0.900	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1170**		mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.82**		mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.456	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**856**		mg/kg dry	45.2	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.2**		mg/kg dry	0.900	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**38.2**		mg/kg dry	2.25	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.11**		mg/kg dry	0.0325	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.542	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.6**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.542	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.2**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **23SP3 (12-14 ft)** **York Sample ID:** **23K0665-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**0.0096**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**0.0070**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.067	0.13	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE, IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	IS-HI, CCVE	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**0.059**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**2.8**		mg/kg dry	0.29	0.59	100	EPA 8260D	11/15/2023 09:00	11/15/2023 17:15	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**0.092**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**0.17**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**0.0098**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.031**		mg/kg dry	0.0067	0.013	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**0.020**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**0.056**		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.0053**	J	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.041**		mg/kg dry	0.010	0.020	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*20.9 %*	IS-HI, S-04, S-08		*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*123 %*	S-04, S-08		*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*142 %*	S-04, S-08		*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Azetidine methyl isomer**	**0.071**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
000874-41-9	**Benzene, 1-ethyl-2,4-dimethyl-**	**0.079**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Cyclohexane dimethyl isomer**	**0.069**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Cyclohexane dimethyl trans ...**	**0.11**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Cyclohexane ethyl isomer**	**0.063**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Cyclohexane trimethyl isomer**	**0.10**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Cyclopentane dimethyl cis i...**	**0.092**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Cyclopentane dimethyl isomer**	**0.057**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Cyclopentane trimethyl isomer**	**0.067**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Heptane dimethyl isomer**	**0.067**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Heptane methyl isomer**	**0.055**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Hexane methyl isomer**	**0.10**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Indan methyl isomer**	**0.065**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Pentane methyl isomer**	**0.12**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	**Trimethylbicycloheptylamine...**	**0.12**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:25	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:25	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:25	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
91-57-6	**2-Methylnaphthalene**	**0.871**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 21:25	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.197	0.394	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.197	0.394	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.117**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.131**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.103**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.0920**	J	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.0928**	J	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**0.122**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	**Di-n-octyl phthalate**	**0.104**	CAL-E, CCVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
206-44-0	**Fluoranthene**	**0.230**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0959**	J	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	**Naphthalene**	**1.20**		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.178**		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.249**		mg/kg dry	0.0493	0.0984	2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*55.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*52.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*60.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.3 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0190	1	EPA 8270D SIM	11/15/2023 08:21	11/16/2023 01:57	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*52.1 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.130	0.207	1	EPA 1633 Draft 3	11/14/2023 13:45	11/17/2023 17:10	ESJ
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0619	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.123	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.209	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.201	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.221	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.223	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.231	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.190	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.146	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.120	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.173	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.227	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.127	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.171	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.181	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.223	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.695	0.888	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.882	0.897	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.127	0.935	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.162	0.416	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.226	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0724	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.112	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.183	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.695	0.876	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.710	0.935	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.363	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.287	0.874	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.203	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.197	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.145	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.741	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.45	5.84	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.75	5.84	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.714	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.210	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.814	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.231	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*99.6 %*	*25-150*
Surrogate: M5PFHxA	*98.8 %*	*25-150*
Surrogate: M4PFHpA	*118 %*	*25-150*
Surrogate: M3PFHxS	*165 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*110 %*	*25-150*
Surrogate: M6PFDA	*133 %*	*25-150*
Surrogate: M7PFUdA	*129 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*121 %*	*25-150*
Surrogate: M2PFTeDA	*112 %*	*10-150*

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.89 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*114 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*8.23 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*74.5 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*83.9 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*94.4 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*72.0 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*81.9 %*			*25-200*						
	Surrogate: M9PFNA	*120 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*50.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*63.1 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*48.1 %*			*25-150*						
	Surrogate: M3HFPO-DA	*99.0 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*118 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*122 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.2**	**2.06**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 5.4**	**0.978**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 5.5**	**2.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 5.6**	**2.31**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 6.1**	**0.934**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**1.96**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**ethyl dimethyl Benzene Isom...**	**2.77**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Tetramethyl Benzene Isomer ...**	**1.06**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Trimethyl Benzene Isomer RT... (01)**	**0.877**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Trimethyl Benzene Isomer RT... (02)**	**3.27**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (03)**	**1.17**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.6**	**1.08**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.7**	**1.03**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 4.4 (01)**	**1.37**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 4.4 (02)**	**1.44**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 21:25	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	39.0	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.76	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	98.8	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:43	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*	*30-140*

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 14:51	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7980**		mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.84**		mg/kg dry	1.48	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**96.6**		mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.050	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.297	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**11700**	B	mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**23.1**		mg/kg dry	0.495	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.83**		mg/kg dry	0.395	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**28.0**		mg/kg dry	1.98	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**13100**		mg/kg dry	24.7	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**125**		mg/kg dry	0.495	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**3290**		mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**255**		mg/kg dry	0.495	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.8**		mg/kg dry	0.985	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2140**		mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.499	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**211**		mg/kg dry	49.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**20.8**		mg/kg dry	0.985	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**55.3**		mg/kg dry	2.46	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.782**		mg/kg dry	0.0356	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.594	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.1**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.712**		mg/kg dry	0.594	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.2**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

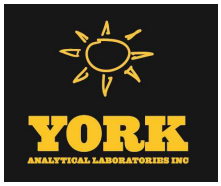
Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D	11/15/2023 09:00	11/15/2023 17:42	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		



Sample Information

Client Sample ID: **23SP3 (25-30 ft)** **York Sample ID:** **23K0665-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.092	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.0082**	J	mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02, CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0069	0.014	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*92.4 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*88.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.1 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,PADEP-68-04440

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:55	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.202	0.405	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.202	0.405	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	Chrysene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-73-7	Fluorene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 21:55	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 21:55	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 21:55	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*56.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*57.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*60.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.7 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0192	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 02:15	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*57.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.134	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0641	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.127	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.217	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.208	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.202	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.229	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.231	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.240	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.197	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.151	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.125	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.179	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.235	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.132	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.177	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.188	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.231	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.720	0.920	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.914	0.929	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.132	0.968	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.168	0.431	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.234	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0750	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.116	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.190	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.720	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.736	0.968	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.376	0.915	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.298	0.905	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	* ADONA	ND		ug/kg dry	0.211	0.915	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.205	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.150	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.767	1.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.54	6.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.82	6.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.739	2.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.218	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.843	2.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.240	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*104 %*	*25-150*
Surrogate: M5PFHxA	*129 %*	*25-150*
Surrogate: M4PFHpA	*153 %*	*25-150*
Surrogate: M3PFHxS	*145 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*116 %*	*25-150*
Surrogate: M6PFDA	*130 %*	*25-150*
Surrogate: M7PFUdA	*140 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*125 %*	*25-150*
Surrogate: M2PFTeDA	*101 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.97 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*114 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*31.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*94.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*86.8 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*87.1 %*	*25-150*
Surrogate: M2-6:2 FTS	*67.6 %*	*25-200*
Surrogate: M2-8:2 FTS	*71.5 %*	*25-200*

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M9PFNA	*133 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*56.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*83.8 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*94.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*145 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*129 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*157 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	39.1	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 23:26	BCJ

Sample Information

Client Sample ID: **23SP3 (25-30 ft)** **York Sample ID:** **23K0665-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
72-20-8	Endrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	9.77	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	98.9	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*103 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:57	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:57	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:57	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:57	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:57	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:57	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:57	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 09:57	BCJ

	Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.0 %*			*30-140*					
2051-24-3	*Surrogate: Decachlorobiphenyl*	*95.0 %*			*30-140*					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8120**		mg/kg dry	5.08	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.69**		mg/kg dry	1.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**33.3**		mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.305	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**591**	B	mg/kg dry	5.08	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**13.0**		mg/kg dry	0.509	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**3.85**		mg/kg dry	0.406	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**11.1**		mg/kg dry	2.03	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**8520**		mg/kg dry	25.4	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**8.57**		mg/kg dry	0.509	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**2200**		mg/kg dry	5.09	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**62.4**		mg/kg dry	0.509	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**11.1**		mg/kg dry	1.01	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1020**		mg/kg dry	5.09	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.512	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **23SP3 (25-30 ft)** **York Sample ID:** **23K0665-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	**Sodium**	**106**		mg/kg dry	50.8	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**15.5**		mg/kg dry	1.01	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**31.6**		mg/kg dry	2.53	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0366	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.610	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**13.0**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.610	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**82.0**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **23SP3 (25-30 ft)** **York Sample ID:** **23K0665-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Sample Information

Client Sample ID: **23SP4 (0-5 ft)** **York Sample ID:** **23K0665-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.060**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	**1,3,5-Trimethylbenzene**	**0.015**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	ICVE, CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.0063**	CCVE, J	mg/kg dry	0.0052	0.010	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	**Benzene**	**0.0068**		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**0.016**		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.036**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**0.0058**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**0.030**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	**n-Propylbenzene**	**0.017**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.0032**	J	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**0.060**		mg/kg dry	0.0052	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	**Toluene**	**0.0026**	J	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.063**		mg/kg dry	0.0078	0.016	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*87.0 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.6 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene cyclopropyl isomer**	**0.020**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:			
NA	**Benzene ethyl dimethyl isomer**	**0.0056**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:			
NA	**Benzene ethyl -methyl isomer**	**0.011**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:			
NA	**Cyclopentane methyl isomer**	**0.014**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:			
NA	**Pentane methy isomer**	**0.0072**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 22:25	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 22:25	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:25	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
91-57-6	**2-Methylnaphthalene**	**0.0470**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:25	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0595**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.603**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.733**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**2.92**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**2.91**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**2.81**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**1.51**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**2.11**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:25	KH-
86-74-8	**Carbazole**	**0.0581**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 22:25	KH-
218-01-9	**Chrysene**	**2.35**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 22:25	KH-
53-70-3	**Dibenzo(a,h)anthracene**	**0.596**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 22:25	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
117-84-0	**Di-n-octyl phthalate**	**0.0515**	CAL-E, J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 22:25	KH-
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH-
206-44-0	**Fluoranthene**	**5.56**		mg/kg dry	0.230	0.460	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/17/2023 09:53	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:25	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.10**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 22:25	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
91-20-3	**Naphthalene**	**0.243**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 22:25	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
85-01-8	**Phenanthrene**	**0.827**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
129-00-0	**Pyrene**	**4.68**		mg/kg dry	0.230	0.460	10	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 09:53 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*44.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*51.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*25.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0187	1	EPA 8270D SIM Certifications:	11/15/2023 08:21	11/16/2023 02:32 NELAC-NY10854	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*55.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.123	0.196	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:42 NELAC-NH2097 ,NJDEP-NY037	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0684**	J	ug/kg dry	0.0587	0.222	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:42 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.116	0.222	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:42 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.198	0.203	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:42 NELAC-NH2097 ,NJDEP-NY037	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.191	0.222	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:42 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.185	0.206	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:42 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ

Sample Information

Client Sample ID: 23SP4 (0-5 ft)

York Sample ID: 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.209	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.212	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.219	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.181	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.139	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.114	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.164	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.215	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**0.144**	J	ug/kg dry	0.121	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.162	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.172	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.212	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.659	0.842	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.837	0.851	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.121	0.887	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.154	0.395	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.214	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0687	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.106	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.174	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.659	0.831	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.674	0.887	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.345	0.838	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.273	0.829	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.193	0.838	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.187	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.137	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.703	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.33	5.54	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.66	5.54	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.677	2.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.200	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.773	2.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.219	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*61.3 %*	*25-150*
Surrogate: M5PFHxA	*103 %*	*25-150*
Surrogate: M4PFHpA	*126 %*	*25-150*
Surrogate: M3PFHxS	*134 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*	*25-150*
Surrogate: M6PFDA	*112 %*	*25-150*
Surrogate: M7PFUdA	*99.6 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*84.9 %*	*25-150*
Surrogate: M2PFTeDA	*70.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.47 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*120 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*11.2 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*77.3 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*58.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*66.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*98.8 %*	*25-200*

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	*112 %*			*25-200*						
	Surrogate: M9PFNA	*108 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*60.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*44.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*54.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*112 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*74.0 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*82.2 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown PAH RT 12.3**	**1.32**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:			
NA	**Unknown PAH RT 16.5**	**0.748**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:			
NA	**Unknown PAH RT 16.8**	**1.75**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:25	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	36.1	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.81	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.04	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	91.5	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.5 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14600**		mg/kg dry	4.70	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.67**		mg/kg dry	1.41	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**122**		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.047	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.282	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**12100**	B	mg/kg dry	4.70	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**25.7**		mg/kg dry	0.471	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.45**		mg/kg dry	0.376	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**37.9**		mg/kg dry	1.88	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**17600**		mg/kg dry	23.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**107**		mg/kg dry	0.471	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4980**		mg/kg dry	4.71	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**342**		mg/kg dry	0.471	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.6**		mg/kg dry	0.936	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2710**		mg/kg dry	4.71	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.58**		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.474	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**483**		mg/kg dry	47.0	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**34.7**		mg/kg dry	0.936	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**61.4**		mg/kg dry	2.34	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.237**		mg/kg dry	0.0338	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.564	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**25.7**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.564	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.6**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	**1,2,4-Trimethylbenzene**	**64**		mg/kg dry	2.8	5.6	1000	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 14:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	**1,3,5-Trimethylbenzene**	**22**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	5.6	11	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-64-1	Acetone	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	Benzene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**4.1**	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	IS-HI, CCVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**25**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**18**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**22**		mg/kg dry	2.8	5.6	1000	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 14:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**11**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**11**		mg/kg dry	2.8	5.6	1000	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 14:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	**o-Xylene**	**2.2**	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**36**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**4.0**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**4.2**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**38**		mg/kg dry	0.84	1.7	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*29.2 %*	IS-HI, S-03, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*120 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*130 %*	S-08	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Acetylcyclopentanone isomer**	**8.1**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene cyclopropyl isomer**	**7.0**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Benzene ethyldimethyl isomer**	**5.1**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Cyclohexane dimethyl trans ...**	**9.6**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Cyclohexane ethyl isomer**	**6.2**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Cyclohexanedione isomer**	**9.4**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Cyclopentane dimethyl cis i...**	**9.0**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Cyclopentane dimethyl isomer**	**7.4**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Cyclopentane ethyl isomer**	**5.3**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Cyclopentane methyl isomer**	**6.3**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Heptane methyl isomer**	**6.6**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Hexane methyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Hexane methylmethylene isomer**	**6.4**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Octane methyl isomer**	**5.6**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			
NA	**Pentane methyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0540**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 22:54	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 22:54	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:54	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
91-57-6	**2-Methylnaphthalene**	**3.59**		mg/kg dry	0.121	0.241	5	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/17/2023 10:24	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:54	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0702**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.235**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.19**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**1.62**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**1.21**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**1.08**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**1.03**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
218-01-9	**Chrysene**	**1.17**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
53-70-3	**Dibenzo(a,h)anthracene**	**0.256**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-84-0	**Di-n-octyl phthalate**	**0.0887**	CAL-E, J	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
206-44-0	**Fluoranthene**	**1.99**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
86-73-7	**Fluorene**	**0.101**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.26**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-20-3	**Naphthalene**	**6.47**		mg/kg dry	0.121	0.241	5	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 10:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
85-01-8	**Phenanthrene**	**0.884**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
129-00-0	**Pyrene**	**2.42**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*40.9 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*37.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*41.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*49.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*51.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0190	1	EPA 8270D SIM Certifications:	11/15/2023 08:21	11/16/2023 02:49 NELAC-NY10854	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*61.6 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.130	0.207	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:58 NELAC-NH2097 ,NJDEP-NY037	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0621	0.234	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:58 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.123	0.234	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:58 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.210	0.214	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:58 NELAC-NH2097 ,NJDEP-NY037	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.202	0.234	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:58 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.196	0.218	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45	11/17/2023 17:58 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.222	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.224	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.191	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.147	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.121	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.173	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.227	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.128	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.171	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.182	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.224	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.697	0.891	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.885	0.900	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.128	0.938	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.163	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.226	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0727	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.113	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.184	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.697	0.879	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.713	0.938	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.365	0.886	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ

Sample Information

Client Sample ID: **23SP4 (12-14 ft)** **York Sample ID:** **23K0665-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.288	0.877	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.204	0.886	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.198	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.145	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.743	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.46	5.86	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.76	5.86	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.716	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.211	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.817	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*105 %*	*25-150*
Surrogate: M5PFHxA	*110 %*	*25-150*
Surrogate: M4PFHpA	*138 %*	*25-150*
Surrogate: M3PFHxS	*150 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*108 %*	*25-150*
Surrogate: M6PFDA	*137 %*	*25-150*
Surrogate: M7PFUdA	*142 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*118 %*	*25-150*
Surrogate: M2PFTeDA	*93.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.09 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*99.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*15.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*72.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*85.6 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*96.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*73.9 %*	*25-200*

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2-8:2 FTS	*102 %*			*25-200*						
	Surrogate: M9PFNA	*110 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*58.0 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*56.8 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*55.2 %*			*25-150*						
	Surrogate: M3HFPO-DA	*112 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*70.9 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*86.2 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 3.7**	**4.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 4.1**	**1.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 4.8**	**6.87**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 4.9**	**6.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 5.2**	**6.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 5.5**	**1.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 5.6**	**2.14**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Cyclohexane Isomer RT 4.0**	**1.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**3.72**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Ethyl Methyl Benzene Isomer...**	**7.47**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**methyl methylethyl Benzene ...**	**6.76**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Methyl Propyl Benzene Isome...**	**1.33**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Nonane RT 3.9**	**2.48**	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Propyl Benzene RT 4.4**	**5.99**	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Tetramethyl Benzene Isomer ...**	**1.23**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (01)**	**5.79**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (02)**	**26.0**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.6**	**3.54**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 4.2**	**1.67**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	38.7	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-43-5	Methoxychlor	ND		ug/kg dry	9.68	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
8001-35-2	Toxaphene	ND		ug/kg dry	97.9	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.0 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8630**		mg/kg dry	4.90	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.45	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**7.55**		mg/kg dry	1.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**116**		mg/kg dry	2.45	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.049	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.294	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**20800**	B	mg/kg dry	4.90	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**18.6**		mg/kg dry	0.491	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**8.87**		mg/kg dry	0.392	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**40.9**		mg/kg dry	1.96	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**40300**		mg/kg dry	24.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**117**		mg/kg dry	0.491	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**3880**		mg/kg dry	4.91	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**625**		mg/kg dry	0.491	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.9**		mg/kg dry	0.977	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2400**		mg/kg dry	4.91	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**7.15**		mg/kg dry	2.45	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.494	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	49.0	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/kg dry	2.45	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**32.4**		mg/kg dry	0.977	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**43.6**		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.561**		mg/kg dry	0.0353	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.588	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**18.6**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.588	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.0**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**16**		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	ICVE, QL-02, CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**6.2**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	8.1	16	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**1.1**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**6.8**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**5.0**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**1.7**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**19**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**1.4**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**5.0**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.88**	QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**8.5**		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**0.58**	J	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723	11/15/2023 18:37	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
1330-20-7	**Xylenes, Total**	**9.4**		mg/kg dry	1.2	2.4	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:37	SS

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*57.5 %*	S-03, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.7 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyldimethyl isomer**	**3.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclohexane dimethyl trans ...**	**3.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclohexane ethyl isomer**	**4.7**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclohexane trimethyl isomer**	**3.7**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclopentane methyl isomer**	**3.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**deltacyclene isomer**	**4.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Heptane dimethyl isomer**	**5.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Heptane methyl isomer**	**6.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Hexane methyl isomer**	**3.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Indan methyl isomer**	**3.5**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:			
NA	**Indene dihydromethyl isomer**	**4.1**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:			
NA	**Nonane methyl isomer**	**2.8**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:			
NA	**Octane isomer**	**7.5**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:			
NA	**Octane methyl isomer**	**8.7**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:			
NA	**Pentane methyl isomer**	**3.5**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:			
NA	**Undecane dimethyl isomer**	**2.9**	J	mg/kg dry			100	EPA 8260C	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.111	0.221	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.111	0.221	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.111	0.221	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**2.70**		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.222	0.444	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1912-24-9	Atrazine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.222	0.444	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 23:24	KH-
56-55-3	**Benzo(a)anthracene**	**0.0611**	J	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 23:24	KH-
50-32-8	**Benzo(a)pyrene**	**0.0602**	J	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 23:24	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
218-01-9	**Chrysene**	**0.0611**	J	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 23:24	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	**Di-n-octyl phthalate**	**0.0682**	J, CAL-E	mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
122-39-4	* Diphenylamine	ND		mg/kg dry	0.111	0.221	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:			
206-44-0	**Fluoranthene**	**0.133**		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	Fluorene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
78-59-1	Isophorone	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**3.39**		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.144**		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.153**		mg/kg dry	0.0555	0.111	2	EPA 8270D	11/16/2023 08:12	11/16/2023 23:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*50.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*56.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*67.6 %*	*19-110*

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.3 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 03:06	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*62.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.148	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0705	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.140	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.238	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.229	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.222	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.251	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.254	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.263	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.217	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.166	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.137	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.197	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.258	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.145	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.194	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.206	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.254	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.792	1.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.00	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.145	1.06	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.185	0.474	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.257	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0825	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.128	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.209	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.792	0.998	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.809	1.06	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.414	1.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.327	0.995	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.231	1.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.225	0.258	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.165	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.843	1.33	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.79	6.65	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.00	6.65	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.813	2.66	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ

Sample Information

Client Sample ID: **23SP4 (14-16 ft)** **York Sample ID:** **23K0665-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.239	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.927	2.66	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.263	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*70.7 %*	*25-150*
Surrogate: M5PFHxA	*104 %*	*25-150*
Surrogate: M4PFHpA	*120 %*	*25-150*
Surrogate: M3PFHxS	*160 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*123 %*	*25-150*
Surrogate: M6PFDA	*138 %*	*25-150*
Surrogate: M7PFUdA	*128 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*111 %*	*25-150*
Surrogate: M2PFTeDA	*92.3 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.01 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*140 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.87 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*90.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*101 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*101 %*	*25-150*
Surrogate: M2-6:2 FTS	*180 %*	*25-200*
Surrogate: M2-8:2 FTS	*185 %*	*25-200*
Surrogate: M9PFNA	*127 %*	*25-150*
Surrogate: M2-4:2 FTS	*76.2 %*	*25-150*
Surrogate: d-N-MeFOSA	*50.8 %*	*25-150*
Surrogate: d-N-EtFOSA	*52.0 %*	*25-150*
Surrogate: M3HFPO-DA	*106 %*	*25-150*
Surrogate: d9-N-EtFOSE	*77.6 %*	*25-150*
Surrogate: d7-N-MeFOSE	*88.4 %*	*25-150*

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 3.7**	**1.51**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Benzene Isomer RT 4.9**	**1.93**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Benzene Isomer RT 5.5**	**1.99**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Benzene Isomer RT 5.6**	**2.50**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Benzene Isomer RT 6.1**	**1.01**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Diethyl Benzene Isomer RT 4.9**	**2.10**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Dimethyl Heptane Isomer RT 3.6**	**1.24**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Ethyl Dimethyl Benzene Isom... (01)**	**2.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Ethyl Dimethyl Benzene Isom... (02)**	**1.08**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Ethyl Methyl Benzene Isomer...**	**1.54**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**methyl methylethyl Benzene ...**	**3.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Propyl Benzene RT 4.4**	**2.06**	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Tetramethyl Benzene Isomer ...**	**0.960**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Trimethyl Benzene Isomer RT... (01)**	**1.49**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Trimethyl Benzene Isomer RT... (02)**	**3.93**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Trimethyl Benzene Isomer RT... (03)**	**2.60**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Unknown RT 11.4**	**6.73**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	**Unknown RT 12.2**	**2.16**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	43.8	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	11.0	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	111	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.1 %*	*30-150*

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.3 %*			*30-150*					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0221	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:38	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6300**		mg/kg dry	5.55	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.78	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.40**		mg/kg dry	1.67	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**139**		mg/kg dry	2.77	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.333	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**13400**	B	mg/kg dry	5.55	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**13.7**		mg/kg dry	0.556	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.05**		mg/kg dry	0.444	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**38.0**		mg/kg dry	2.22	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**10900**		mg/kg dry	27.8	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**358**		mg/kg dry	0.556	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**2500**		mg/kg dry	5.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**303**		mg/kg dry	0.556	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.8**		mg/kg dry	1.11	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1030**		mg/kg dry	5.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.78	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.560	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**558**		mg/kg dry	55.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.78	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**12.8**		mg/kg dry	1.11	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**31.8**		mg/kg dry	2.77	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.639**		mg/L	0.625	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Metals, TCLP RCRA

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**2.92**	M-CCV 1	mg/L	0.125	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:32	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:32	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:32	CEG
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**3.07**		mg/kg dry	0.0400	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications: CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04			

Mercury, TCLP

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311	12/22/2023 08:53	12/22/2023 08:53	PFA
							Certifications: CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04440,NELAC-NY10			

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.667	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications: NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**13.7**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**7.53**	HT-pH	pH units	0.500	1	EPA 9045D	12/18/2023 14:47	12/18/2023 22:53	SL
							Certifications: NELAC-NY10854,CTDOH-PH-0723,PADEP-68-04440			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.667**		mg/kg dry	0.667	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**75.0**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	12/21/2023 11:45	12/22/2023 09:07	TAJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**0.033**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**0.011**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.089	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.0045	0.0089	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP4 (27.5-30 ft)** **York Sample ID:** **23K0665-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**0.0080**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**0.0076**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**0.0028**	J	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.050**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	**n-Propylbenzene**	**0.0089**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
179601-23-1	**p- & m- Xylenes**	**0.012**		mg/kg dry	0.0045	0.0089	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	**Xylenes, Total**	**0.012**	J	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*70.9 %*	S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.5 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.8 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethenylmethyl isomer**	**0.011**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyldimethyl isomer**	**0.011**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Cyclohexane dimethyl trans ...**	**0.014**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Cyclohexane ethyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Cyclopentane dimethyl trans...**	**0.010**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Cyclopentane methyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Heptane methyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Hexane ethyl isomer**	**0.016**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Hexane isomer**	**0.0099**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Hexane methyl isomer**	**0.019**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Indan methyl isomer**	**0.0091**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Octane isomer**	**0.019**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Octane methyl isomer**	**0.0098**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Pentane methyl isomer**	**0.018**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:54	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:54	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:54	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:54	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:54	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:54	KH-

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 23:54	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:54	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:54	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	Chrysene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-73-7	Fluorene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*51.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*50.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*50.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*64.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*58.9 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications:	11/15/2023 08:21 NELAC-NY10854	11/16/2023 03:24	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*62.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.135	0.215	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NJDEP-NY037	11/17/2023 18:30	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0644	0.243	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/17/2023 18:30	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.128	0.243	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/17/2023 18:30	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.218	0.223	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NJDEP-NY037	11/17/2023 18:30	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.209	0.243	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/17/2023 18:30	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.203	0.226	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/17/2023 18:30	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.230	0.243	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/17/2023 18:30	ESJ

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.232	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.241	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.198	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.152	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.125	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.180	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.236	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.133	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.178	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.188	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.232	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.724	0.924	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.918	0.934	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.133	0.973	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.169	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.235	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0754	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.117	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.191	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.724	0.912	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.739	0.973	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.378	0.919	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.299	0.910	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	* ADONA	ND		ug/kg dry	0.212	0.919	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.206	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.151	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.771	1.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.55	6.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.82	6.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.743	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.219	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.848	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.241	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*46.0 %*	*25-150*
Surrogate: M5PFHxA	*86.8 %*	*25-150*
Surrogate: M4PFHpA	*139 %*	*25-150*
Surrogate: M3PFHxS	*138 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*111 %*	*25-150*
Surrogate: M6PFDA	*119 %*	*25-150*
Surrogate: M7PFUdA	*117 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*99.5 %*	*25-150*
Surrogate: M2PFTeDA	*76.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.47 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*103 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.85 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*91.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*93.7 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*85.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*79.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*78.6 %*	*25-200*

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M9PFNA	*118 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*49.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*59.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*52.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*84.3 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*70.1 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*73.4 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
309-00-2	Aldrin	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	40.6	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/17/2023 00:52	BCJ

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
72-20-8	Endrin	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	10.1	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	103	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:52	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*99.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:52	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:52	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:52	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:52	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:52	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:52	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:52	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0205	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:52	BCJ

	Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.5 %*			*30-140*					
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.5 %*			*30-140*					

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8330**		mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.57	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**36.6**		mg/kg dry	2.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.308	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1750**	B	mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**20.8**		mg/kg dry	0.514	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.83**		mg/kg dry	0.411	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**18.9**		mg/kg dry	2.06	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**11300**		mg/kg dry	25.7	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**4.55**		mg/kg dry	0.514	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**3290**		mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**96.0**		mg/kg dry	0.514	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**13.0**		mg/kg dry	1.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2180**		mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.57	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.518	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	ND		mg/kg dry	51.4	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.57	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**20.5**		mg/kg dry	1.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**50.4**		mg/kg dry	2.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0370	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**1.04**		mg/kg dry	0.617	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**19.8**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.617	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.1**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **23SP4 (27.5-30 ft)** **York Sample ID:** **23K0665-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0665-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.427	1.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.318	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.645	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.618	1.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.381	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.745	1.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.472	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.681	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.03	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.799	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.672	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.627	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.717	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.935	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.209	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.799	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.826	1.73	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.20	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0665-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.963	6.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.86	6.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.300	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.454	3.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.94	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.227	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.336	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.690	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.63	6.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.93	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.25	6.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.636	6.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
919005-14-4	ADONA	ND		ng/L	0.481	6.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.845	1.76	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.781	1.74	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.84	4.54	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.66	22.7	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.60	22.7	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.62	18.2	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.43	1.82	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.62	18.2	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.63	1.82	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*91.6 %*	*25-150*

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0665-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M5PFHxA	*87.0 %*			*25-150*						
	Surrogate: M4PFHpA	*113 %*			*25-150*						
	Surrogate: M3PFHxS	*126 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*92.6 %*			*25-150*						
	Surrogate: M6PFDA	*105 %*			*25-150*						
	Surrogate: M7PFUdA	*110 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*95.7 %*			*25-150*						
	Surrogate: M2PFTeDA	*54.3 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.565 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*92.0 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*12.8 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*80.3 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*61.9 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*62.8 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*60.2 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*63.8 %*			*25-200*						
	Surrogate: M9PFNA	*106 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*56.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*68.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*56.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*98.1 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*35.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*45.3 %*			*25-150*						

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0665-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0665-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0665-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0665-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*111 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0665-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*			*79-122*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications:			

Analytical Batch Summary

Batch ID: BA41478 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** LC

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-02	23SP3 (8-12 ft)	01/23/24
23K0665-03	23SP3 (12-14 ft)	01/23/24
23K0665-05	23SP4 (0-5 ft)	01/23/24
23K0665-06	23SP4 (12-14 ft)	01/23/24
BA41478-BLK1	Blank	01/23/24

Batch ID: BA41914 **Preparation Method:** EPA 3015A/1311 **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-02	23SP3 (8-12 ft)	01/30/24
23K0665-03	23SP3 (12-14 ft)	01/30/24
23K0665-05	23SP4 (0-5 ft)	01/30/24
23K0665-06	23SP4 (12-14 ft)	01/30/24
BA41914-BLK1	Blank	01/30/24
BA41914-BS1	LCS	01/30/24
BA41914-DUP1	Duplicate	01/30/24
BA41914-LBK1	Leach Fluid Blank	01/30/24
BA41914-MS1	Matrix Spike	01/30/24
BA41914-PS1	Post Spike	01/30/24

Batch ID: BK30664 **Preparation Method:** EPA 3050B **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/09/23
BK30664-BLK1	Blank	11/09/23
BK30664-DUP1	Duplicate	11/09/23
BK30664-MS1	Matrix Spike	11/09/23
BK30664-PS1	Post Spike	11/09/23
BK30664-SRM1	Reference	11/09/23

Batch ID: BK30823 **Preparation Method:** EPA 3050B **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-02	23SP3 (8-12 ft)	11/13/23
23K0665-03	23SP3 (12-14 ft)	11/13/23
23K0665-04	23SP3 (25-30 ft)	11/13/23
23K0665-05	23SP4 (0-5 ft)	11/13/23
23K0665-06	23SP4 (12-14 ft)	11/13/23
23K0665-07	23SP4 (14-16 ft)	11/13/23
23K0665-08	23SP4 (27.5-30 ft)	11/13/23
BK30823-BLK1	Blank	11/13/23
BK30823-DUP1	Duplicate	11/13/23
BK30823-MS1	Matrix Spike	11/13/23
BK30823-PS1	Post Spike	11/13/23

BK30823-SRM1	Reference	11/13/23

Batch ID: BK30861 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/14/23
23K0665-02	23SP3 (8-12 ft)	11/14/23
23K0665-03	23SP3 (12-14 ft)	11/14/23
23K0665-05	23SP4 (0-5 ft)	11/14/23
23K0665-08	23SP4 (27.5-30 ft)	11/14/23
BK30861-BLK1	Blank	11/14/23
BK30861-BLK2	Blank	11/14/23
BK30861-BS1	LCS	11/14/23
BK30861-BSD1	LCS Dup	11/14/23

Batch ID: BK30891 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-10	Trip Blank	11/14/23
BK30891-BLK1	Blank	11/14/23
BK30891-BS1	LCS	11/14/23
BK30891-BSD1	LCS Dup	11/14/23
BK30891-MS1	Matrix Spike	11/14/23
BK30891-MSD1	Matrix Spike Dup	11/14/23

Batch ID: BK30902 **Preparation Method:** % Solids Prep **Prepared By:** sgs

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/14/23
23K0665-02	23SP3 (8-12 ft)	11/14/23
23K0665-03	23SP3 (12-14 ft)	11/14/23
23K0665-04	23SP3 (25-30 ft)	11/14/23
23K0665-05	23SP4 (0-5 ft)	11/14/23
23K0665-06	23SP4 (12-14 ft)	11/14/23
BK30902-DUP1	Duplicate	11/14/23

Batch ID: BK30903 **Preparation Method:** % Solids Prep **Prepared By:** sgs

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-07	23SP4 (14-16 ft)	11/14/23
23K0665-08	23SP4 (27.5-30 ft)	11/14/23
BK30903-DUP1	Duplicate	11/14/23

Batch ID: BK30904 **Preparation Method:** Analysis Preparation Soil **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/14/23
BK30904-BLK1	Blank	11/14/23

BK30904-DUP1	Duplicate	11/14/23
BK30904-MS1	Matrix Spike	11/14/23
BK30904-MSD1	Matrix Spike Dup	11/14/23
BK30904-SRM1	Reference	11/14/23

Batch ID: BK30912 **Preparation Method:** EPA 1633 Prep **Prepared By:** WJH

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/14/23
23K0665-02	23SP3 (8-12 ft)	11/14/23
23K0665-03	23SP3 (12-14 ft)	11/14/23
23K0665-04	23SP3 (25-30 ft)	11/14/23
23K0665-05	23SP4 (0-5 ft)	11/14/23
23K0665-06	23SP4 (12-14 ft)	11/14/23
23K0665-07	23SP4 (14-16 ft)	11/14/23
23K0665-08	23SP4 (27.5-30 ft)	11/14/23
BK30912-BLK1	Blank	11/14/23
BK30912-BS1	LCS	11/14/23
BK30912-BS2	LCS	11/14/23
BK30912-MS1	Matrix Spike	11/14/23
BK30912-MS2	Matrix Spike	11/14/23
BK30912-MSD1	Matrix Spike Dup	11/14/23
BK30912-MSD2	Matrix Spike Dup	11/14/23

Batch ID: BK30956 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-03RE1	23SP3 (12-14 ft)	11/15/23
23K0665-04	23SP3 (25-30 ft)	11/15/23
23K0665-06	23SP4 (12-14 ft)	11/15/23
23K0665-07	23SP4 (14-16 ft)	11/15/23
BK30956-BLK1	Blank	11/15/23
BK30956-BLK2	Blank	11/15/23
BK30956-BS1	LCS	11/15/23
BK30956-BSD1	LCS Dup	11/15/23

Batch ID: BK30961 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/15/23
23K0665-02	23SP3 (8-12 ft)	11/15/23
23K0665-03	23SP3 (12-14 ft)	11/15/23
23K0665-04	23SP3 (25-30 ft)	11/15/23
23K0665-05	23SP4 (0-5 ft)	11/15/23
23K0665-06	23SP4 (12-14 ft)	11/15/23
23K0665-07	23SP4 (14-16 ft)	11/15/23
23K0665-08	23SP4 (27.5-30 ft)	11/15/23
BK30961-BLK1	Blank	11/15/23
BK30961-BS1	LCS	11/15/23
BK30961-MS1	Matrix Spike	11/15/23

BK30961-MS2	Matrix Spike	11/15/23
BK30961-MSD1	Matrix Spike Dup	11/15/23
BK30961-MSD2	Matrix Spike Dup	11/15/23

Batch ID: BK30998 **Preparation Method:** EPA SW846-3060 **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/15/23
23K0665-02	23SP3 (8-12 ft)	11/15/23
23K0665-03	23SP3 (12-14 ft)	11/15/23
23K0665-04	23SP3 (25-30 ft)	11/15/23
23K0665-05	23SP4 (0-5 ft)	11/15/23
23K0665-06	23SP4 (12-14 ft)	11/15/23
23K0665-07	23SP4 (14-16 ft)	11/15/23
23K0665-08	23SP4 (27.5-30 ft)	11/15/23
BK30998-BLK1	Blank	11/15/23
BK30998-DUP1	Duplicate	11/15/23
BK30998-MS1	Matrix Spike	11/15/23
BK30998-MSD1	Matrix Spike Dup	11/15/23
BK30998-SRM1	Reference	11/15/23

Batch ID: BK31003 **Preparation Method:** Analysis Preparation Soil **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-02	23SP3 (8-12 ft)	11/15/23
23K0665-03	23SP3 (12-14 ft)	11/15/23
23K0665-04	23SP3 (25-30 ft)	11/15/23
23K0665-05	23SP4 (0-5 ft)	11/15/23
23K0665-06	23SP4 (12-14 ft)	11/15/23
23K0665-07	23SP4 (14-16 ft)	11/15/23
23K0665-08	23SP4 (27.5-30 ft)	11/15/23
BK31003-BLK1	Blank	11/15/23
BK31003-DUP1	Duplicate	11/15/23
BK31003-MS1	Matrix Spike	11/15/23
BK31003-MSD1	Matrix Spike Dup	11/15/23
BK31003-SRM1	Reference	11/15/23

Batch ID: BK31036 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-06RE1	23SP4 (12-14 ft)	11/16/23
BK31036-BLK1	Blank	11/16/23
BK31036-BLK2	Blank	11/16/23
BK31036-BS1	LCS	11/16/23
BK31036-BSD1	LCS Dup	11/16/23

Batch ID: BK31053 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date

23K0665-01	23SP3 (0-2.5 ft)	11/16/23
23K0665-01	23SP3 (0-2.5 ft)	11/16/23
23K0665-02	23SP3 (8-12 ft)	11/16/23
23K0665-02	23SP3 (8-12 ft)	11/16/23
23K0665-03	23SP3 (12-14 ft)	11/16/23
23K0665-03	23SP3 (12-14 ft)	11/16/23
23K0665-04	23SP3 (25-30 ft)	11/16/23
23K0665-04	23SP3 (25-30 ft)	11/16/23
23K0665-05	23SP4 (0-5 ft)	11/16/23
23K0665-05	23SP4 (0-5 ft)	11/16/23
23K0665-05RE1	23SP4 (0-5 ft)	11/16/23
23K0665-06	23SP4 (12-14 ft)	11/16/23
23K0665-06	23SP4 (12-14 ft)	11/16/23
23K0665-06RE1	23SP4 (12-14 ft)	11/16/23
23K0665-07	23SP4 (14-16 ft)	11/16/23
23K0665-07	23SP4 (14-16 ft)	11/16/23
23K0665-08	23SP4 (27.5-30 ft)	11/16/23
23K0665-08	23SP4 (27.5-30 ft)	11/16/23
BK31053-BLK1	Blank	11/16/23
BK31053-BS1	LCS	11/16/23
BK31053-MS1	Matrix Spike	11/16/23
BK31053-MSD1	Matrix Spike Dup	11/16/23

Batch ID: BK31064 **Preparation Method:** EPA 3550C **Prepared By:** me

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/16/23
23K0665-01	23SP3 (0-2.5 ft)	11/16/23
23K0665-02	23SP3 (8-12 ft)	11/16/23
23K0665-02	23SP3 (8-12 ft)	11/16/23
23K0665-03	23SP3 (12-14 ft)	11/16/23
23K0665-03	23SP3 (12-14 ft)	11/16/23
23K0665-04	23SP3 (25-30 ft)	11/16/23
23K0665-04	23SP3 (25-30 ft)	11/16/23
23K0665-05	23SP4 (0-5 ft)	11/16/23
23K0665-05	23SP4 (0-5 ft)	11/16/23
23K0665-06	23SP4 (12-14 ft)	11/16/23
23K0665-06	23SP4 (12-14 ft)	11/16/23
23K0665-07	23SP4 (14-16 ft)	11/16/23
23K0665-07	23SP4 (14-16 ft)	11/16/23
23K0665-08	23SP4 (27.5-30 ft)	11/16/23
23K0665-08	23SP4 (27.5-30 ft)	11/16/23
BK31064-BLK1	Blank	11/16/23
BK31064-BLK2	Blank	11/16/23
BK31064-BS1	LCS	11/16/23
BK31064-BS2	LCS	11/16/23
BK31064-MS1	Matrix Spike	11/16/23
BK31064-MS2	Matrix Spike	11/16/23
BK31064-MSD1	Matrix Spike Dup	11/16/23
BK31064-MSD2	Matrix Spike Dup	11/16/23

Batch ID: BK31084 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/16/23
23K0665-02	23SP3 (8-12 ft)	11/16/23
23K0665-03	23SP3 (12-14 ft)	11/16/23
23K0665-04	23SP3 (25-30 ft)	11/16/23
23K0665-05	23SP4 (0-5 ft)	11/16/23
23K0665-06	23SP4 (12-14 ft)	11/16/23
23K0665-07	23SP4 (14-16 ft)	11/16/23
23K0665-08	23SP4 (27.5-30 ft)	11/16/23
BK31084-BLK1	Blank	11/16/23
BK31084-DUP1	Duplicate	11/16/23
BK31084-MS1	Matrix Spike	11/16/23
BK31084-SRM1	Reference	11/16/23

Batch ID: BK31120 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-01	23SP3 (0-2.5 ft)	11/17/23
23K0665-02	23SP3 (8-12 ft)	11/17/23
23K0665-03	23SP3 (12-14 ft)	11/17/23
23K0665-04	23SP3 (25-30 ft)	11/17/23
23K0665-05	23SP4 (0-5 ft)	11/17/23
23K0665-06	23SP4 (12-14 ft)	11/17/23
23K0665-07	23SP4 (14-16 ft)	11/17/23
23K0665-08	23SP4 (27.5-30 ft)	11/17/23

Batch ID: BK31179 **Preparation Method:** EPA 1633 Prep **Prepared By:** WJH

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-09	Field Blank	11/17/23
BK31179-BLK1	Blank	11/17/23
BK31179-BS1	LCS	11/17/23
BK31179-BS2	LCS	11/17/23
BK31179-DUP1	Duplicate	11/17/23

Batch ID: BL31191 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-07	23SP4 (14-16 ft)	12/18/23
BL31191-DUP1	Duplicate	12/18/23

Batch ID: BL31522 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** LC

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-07	23SP4 (14-16 ft)	12/21/23
BL31522-BLK1	Blank	12/21/23

Batch ID: BL31603 **Preparation Method:** EPA SW846-7470A **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-07	23SP4 (14-16 ft)	12/22/23
BL31603-BLK1	Blank	12/22/23
BL31603-BLK2	Blank	12/22/23
BL31603-BS1	LCS	12/22/23
BL31603-BS2	LCS	12/22/23
BL31603-LBK1	Leach Fluid Blank	12/22/23

Batch ID: BL31609 **Preparation Method:** EPA 3015A/1311 **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23K0665-07	23SP4 (14-16 ft)	12/22/23
BL31609-BLK1	Blank	12/22/23
BL31609-BS1	LCS	12/22/23
BL31609-DUP1	Duplicate	12/22/23
BL31609-LBK1	Leach Fluid Blank	12/22/23
BL31609-MS1	Matrix Spike	12/22/23
BL31609-PS1	Post Spike	12/22/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
Blank (BK30861-BLK1)									Prepared & Analyzed: 11/14/2023		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
Blank (BK30861-BLK1)											Prepared & Analyzed: 11/14/2023
Methylcyclohexane	ND	0.0050	mg/kg wet								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.9*		*ug/L*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.9*		*"*	*50.0*		*89.8*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.2*		*"*	*50.0*		*98.4*	*76-130*				
Blank (BK30861-BLK2)											Prepared & Analyzed: 11/14/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
Blank (BK30861-BLK2)											Prepared & Analyzed: 11/14/2023
Acrolein	ND	1.0	mg/kg wet								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.1*		*ug/L*	*50.0*		*100*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.3*		*"*	*50.0*		*90.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.6*		*"*	*50.0*		*99.3*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
LCS (BK30861-BS1)								Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	41		ug/L	50.0		82.7	75-129				
1,1,1-Trichloroethane	49		"	50.0		98.6	71-137				
1,1,2,2-Tetrachloroethane	49		"	50.0		97.1	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		111	58-146				
1,1,2-Trichloroethane	48		"	50.0		95.5	83-123				
1,1-Dichloroethane	50		"	50.0		99.2	75-130				
1,1-Dichloroethylene	51		"	50.0		101	64-137				
1,2,3-Trichlorobenzene	51		"	50.0		101	81-140				
1,2,3-Trichloropropane	49		"	50.0		97.3	81-126				
1,2,4-Trichlorobenzene	50		"	50.0		99.5	80-141				
1,2,4-Trimethylbenzene	45		"	50.0		90.8	84-125				
1,2-Dibromo-3-chloropropane	34		"	50.0		68.9	74-142	Low Bias			
1,2-Dibromoethane	46		"	50.0		91.8	86-123				
1,2-Dichlorobenzene	48		"	50.0		95.2	85-122				
1,2-Dichloroethane	54		"	50.0		108	71-133				
1,2-Dichloropropane	44		"	50.0		87.3	81-122				
1,3,5-Trimethylbenzene	44		"	50.0		88.6	82-126				
1,3-Dichlorobenzene	48		"	50.0		96.1	84-124				
1,4-Dichlorobenzene	47		"	50.0		95.0	84-124				
1,4-Dioxane	400		"	1050		37.9	10-228				
2-Butanone	45		"	50.0		90.7	58-147				
2-Hexanone	36		"	50.0		72.1	70-139				
4-Methyl-2-pentanone	30		"	50.0		59.4	72-132	Low Bias			
Acetone	41		"	50.0		81.2	36-155				
Acrolein	45		"	50.0		89.8	10-238				
Acrylonitrile	54		"	50.0		109	66-141				
Benzene	53		"	50.0		106	77-127				
Bromochloromethane	51		"	50.0		103	74-129				
Bromodichloromethane	41		"	50.0		81.4	81-124				
Bromoform	43		"	50.0		85.4	80-136				
Bromomethane	39		"	50.0		77.4	32-177				
Carbon disulfide	49		"	50.0		97.8	10-136				
Carbon tetrachloride	49		"	50.0		98.7	66-143				
Chlorobenzene	50		"	50.0		99.2	86-120				
Chloroethane	37		"	50.0		73.2	51-142				
Chloroform	54		"	50.0		108	76-131				
Chloromethane	38		"	50.0		76.3	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		101	74-132				
cis-1,3-Dichloropropylene	38		"	50.0		76.3	81-129	Low Bias			
Cyclohexane	53		"	50.0		106	70-130				
Dibromochloromethane	43		"	50.0		85.8	10-200				
Dibromomethane	47		"	50.0		93.9	83-124				
Dichlorodifluoromethane	53		"	50.0		106	28-158				
Ethyl Benzene	46		"	50.0		91.3	84-125				
Hexachlorobutadiene	51		"	50.0		102	83-133				
Isopropylbenzene	46		"	50.0		92.6	81-127				
Methyl acetate	49		"	50.0		98.0	41-143				
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.8	74-131				
Methylcyclohexane	40		"	50.0		80.2	70-130				
Methylene chloride	50		"	50.0		101	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
LCS (BK30861-BS1)								Prepared & Analyzed: 11/14/2023			
n-Butylbenzene	43		ug/L	50.0		85.5	80-130				
n-Propylbenzene	45		"	50.0		89.1	74-136				
o-Xylene	42		"	50.0		83.4	83-123				
p- & m- Xylenes	91		"	100		91.3	82-128				
p-Isopropyltoluene	46		"	50.0		91.2	85-125				
sec-Butylbenzene	45		"	50.0		90.7	83-125				
Styrene	42		"	50.0		83.1	86-126	Low Bias			
tert-Butyl alcohol (TBA)	190		"	250		77.7	70-130				
tert-Butylbenzene	42		"	50.0		84.2	80-127				
Tetrachloroethylene	38		"	50.0		75.6	80-129	Low Bias			
Toluene	45		"	50.0		90.8	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		101	72-132				
trans-1,3-Dichloropropylene	36		"	50.0		72.7	78-132	Low Bias			
trans-1,4-dichloro-2-butene	45		"	50.0		90.9	75-135				
Trichloroethylene	44		"	50.0		87.8	84-123				
Trichlorofluoromethane	46		"	50.0		91.3	62-140				
Vinyl Chloride	39		"	50.0		77.6	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.2*		*"*	*50.0*		*90.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.2*		*"*	*50.0*		*96.4*	*76-130*				
LCS Dup (BK30861-BSD1)								Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	43		ug/L	50.0		85.5	75-129		3.35	30	
1,1,1-Trichloroethane	52		"	50.0		104	71-137		5.58	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		96.3	79-129		0.889	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		95.3	58-146		15.2	30	
1,1,2-Trichloroethane	48		"	50.0		96.5	83-123		1.10	30	
1,1-Dichloroethane	52		"	50.0		104	75-130		4.94	30	
1,1-Dichloroethylene	46		"	50.0		91.0	64-137		10.8	30	
1,2,3-Trichlorobenzene	52		"	50.0		103	81-140		1.84	30	
1,2,3-Trichloropropane	49		"	50.0		98.3	81-126		0.981	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	80-141		2.89	30	
1,2,4-Trimethylbenzene	48		"	50.0		97.0	84-125		6.56	30	
1,2-Dibromo-3-chloropropane	32		"	50.0		63.8	74-142	Low Bias	7.75	30	
1,2-Dibromoethane	46		"	50.0		91.2	86-123		0.612	30	
1,2-Dichlorobenzene	49		"	50.0		98.7	85-122		3.59	30	
1,2-Dichloroethane	54		"	50.0		108	71-133		0.0185	30	
1,2-Dichloropropane	45		"	50.0		90.8	81-122		3.84	30	
1,3,5-Trimethylbenzene	47		"	50.0		94.5	82-126		6.51	30	
1,3-Dichlorobenzene	50		"	50.0		101	84-124		4.61	30	
1,4-Dichlorobenzene	49		"	50.0		98.6	84-124		3.72	30	
1,4-Dioxane	380		"	1050		36.6	10-228		3.63	30	
2-Butanone	45		"	50.0		89.5	58-147		1.33	30	
2-Hexanone	35		"	50.0		70.3	70-139		2.56	30	
4-Methyl-2-pentanone	29		"	50.0		58.0	72-132	Low Bias	2.35	30	
Acetone	26		"	50.0		52.8	36-155		42.3	30	Non-dir.
Acrolein	44		"	50.0		88.4	10-238		1.53	30	
Acrylonitrile	52		"	50.0		105	66-141		3.33	30	
Benzene	55		"	50.0		111	77-127		4.31	30	
Bromochloromethane	52		"	50.0		104	74-129		1.06	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
LCS Dup (BK30861-BSD1)								Prepared & Analyzed: 11/14/2023			
Bromodichloromethane	42		ug/L	50.0		83.3	81-124		2.28	30	
Bromoform	42		"	50.0		83.4	80-136		2.27	30	
Bromomethane	42		"	50.0		84.4	32-177		8.75	30	
Carbon disulfide	51		"	50.0		102	10-136		3.69	30	
Carbon tetrachloride	52		"	50.0		105	66-143		6.09	30	
Chlorobenzene	52		"	50.0		103	86-120		4.17	30	
Chloroethane	41		"	50.0		82.2	51-142		11.6	30	
Chloroform	56		"	50.0		111	76-131		3.53	30	
Chloromethane	42		"	50.0		84.0	49-132		9.60	30	
cis-1,2-Dichloroethylene	53		"	50.0		105	74-132		3.76	30	
cis-1,3-Dichloropropylene	39		"	50.0		78.7	81-129	Low Bias	3.05	30	
Cyclohexane	57		"	50.0		113	70-130		6.50	30	
Dibromochloromethane	43		"	50.0		85.8	10-200		0.0233	30	
Dibromomethane	47		"	50.0		93.9	83-124		0.0213	30	
Dichlorodifluoromethane	55		"	50.0		110	28-158		3.91	30	
Ethyl Benzene	48		"	50.0		96.8	84-125		5.85	30	
Hexachlorobutadiene	54		"	50.0		109	83-133		6.58	30	
Isopropylbenzene	50		"	50.0		99.6	81-127		7.35	30	
Methyl acetate	47		"	50.0		94.6	41-143		3.51	30	
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.7	74-131		0.0923	30	
Methylcyclohexane	43		"	50.0		85.9	70-130		6.86	30	
Methylene chloride	52		"	50.0		103	57-141		2.69	30	
n-Butylbenzene	46		"	50.0		92.1	80-130		7.34	30	
n-Propylbenzene	48		"	50.0		95.8	74-136		7.23	30	
o-Xylene	44		"	50.0		88.1	83-123		5.46	30	
p- & m- Xylenes	97		"	100		96.6	82-128		5.61	30	
p-Isopropyltoluene	49		"	50.0		98.4	85-125		7.57	30	
sec-Butylbenzene	49		"	50.0		98.0	83-125		7.70	30	
Styrene	43		"	50.0		86.4	86-126		3.89	30	
tert-Butyl alcohol (TBA)	190		"	250		77.3	70-130		0.588	30	
tert-Butylbenzene	45		"	50.0		90.9	80-127		7.70	30	
Tetrachloroethylene	40		"	50.0		80.5	80-129		6.30	30	
Toluene	48		"	50.0		96.0	85-121		5.55	30	
trans-1,2-Dichloroethylene	54		"	50.0		107	72-132		6.00	30	
trans-1,3-Dichloropropylene	37		"	50.0		73.5	78-132	Low Bias	1.04	30	
trans-1,4-dichloro-2-butene	45		"	50.0		89.5	75-135		1.53	30	
Trichloroethylene	47		"	50.0		93.5	84-123		6.29	30	
Trichlorofluoromethane	49		"	50.0		97.7	62-140		6.77	30	
Vinyl Chloride	43		"	50.0		85.4	52-130		9.60	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.7*		*"*	*50.0*		*99.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.7*		*"*	*50.0*		*91.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.1*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
Blank (BK30891-BLK1)									Prepared & Analyzed: 11/14/2023		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
Blank (BK30891-BLK1)											Prepared & Analyzed: 11/14/2023
Methylene chloride	ND	2.0	ug/L								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.0*		*"*	*10.0*		*110*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BK30891-BS1)											Prepared & Analyzed: 11/14/2023
1,1,1,2-Tetrachloroethane	9.1		ug/L	10.0		90.9	82-126				
1,1,1-Trichloroethane	10		"	10.0		102	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		102	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.7		"	10.0		97.3	54-165				
1,1,2-Trichloroethane	9.1		"	10.0		90.6	82-123				
1,1-Dichloroethane	9.6		"	10.0		95.9	82-129				
1,1-Dichloroethylene	9.8		"	10.0		98.2	68-138				
1,2,3-Trichlorobenzene	8.3		"	10.0		83.4	40-130				
1,2,3-Trichloropropane	9.5		"	10.0		95.3	77-128				
1,2,4-Trichlorobenzene	8.4		"	10.0		84.1	65-137				
1,2,4-Trimethylbenzene	10		"	10.0		99.7	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		104	45-147				
1,2-Dibromoethane	9.3		"	10.0		93.0	83-124				
1,2-Dichlorobenzene	9.2		"	10.0		91.6	79-123				
1,2-Dichloroethane	11		"	10.0		112	73-132				
1,2-Dichloropropane	8.9		"	10.0		89.3	78-126				
1,3,5-Trimethylbenzene	9.8		"	10.0		98.1	80-131				
1,3-Dichlorobenzene	9.1		"	10.0		90.9	86-130				
1,4-Dichlorobenzene	8.9		"	10.0		89.0	85-130				
1,4-Dioxane	74		"	210		35.1	10-349				
2-Butanone	9.1		"	10.0		91.2	49-152				
2-Hexanone	7.5		"	10.0		75.0	51-146				
4-Methyl-2-pentanone	8.6		"	10.0		86.2	57-145				
Acetone	4.7		"	10.0		47.2	14-150				
Acrolein	8.9		"	10.0		89.3	10-153				
Acrylonitrile	9.1		"	10.0		91.3	51-150				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
LCS (BK30891-BS1)								Prepared & Analyzed: 11/14/2023			
Benzene	10		ug/L	10.0		103	85-126				
Bromochloromethane	9.8		"	10.0		98.5	77-128				
Bromodichloromethane	9.5		"	10.0		94.9	79-128				
Bromoform	8.2		"	10.0		81.7	78-133				
Bromomethane	8.2		"	10.0		82.4	43-168				
Carbon disulfide	9.4		"	10.0		94.4	68-146				
Carbon tetrachloride	10		"	10.0		100	77-141				
Chlorobenzene	9.8		"	10.0		97.9	88-120				
Chloroethane	11		"	10.0		115	65-136				
Chloroform	10		"	10.0		99.9	82-128				
Chloromethane	10		"	10.0		103	43-155				
cis-1,2-Dichloroethylene	10		"	10.0		103	83-129				
cis-1,3-Dichloropropylene	9.0		"	10.0		90.0	80-131				
Cyclohexane	9.6		"	10.0		95.8	63-149				
Dibromochloromethane	9.2		"	10.0		91.5	80-130				
Dibromomethane	9.2		"	10.0		92.4	72-134				
Dichlorodifluoromethane	11		"	10.0		113	44-144				
Ethyl Benzene	10		"	10.0		102	80-131				
Hexachlorobutadiene	8.3		"	10.0		83.0	67-146				
Isopropylbenzene	9.6		"	10.0		96.1	76-140				
Methyl acetate	8.2		"	10.0		82.3	51-139				
Methyl tert-butyl ether (MTBE)	9.8		"	10.0		97.6	76-135				
Methylcyclohexane	8.9		"	10.0		88.8	72-143				
Methylene chloride	9.6		"	10.0		95.5	55-137				
n-Butylbenzene	8.9		"	10.0		89.2	79-132				
n-Propylbenzene	9.6		"	10.0		96.0	78-133				
o-Xylene	10		"	10.0		101	78-130				
p- & m- Xylenes	21		"	20.0		104	77-133				
p-Isopropyltoluene	9.7		"	10.0		96.6	81-136				
sec-Butylbenzene	9.7		"	10.0		96.6	79-137				
Styrene	10		"	10.0		102	67-132				
tert-Butyl alcohol (TBA)	50		"	50.0		99.8	25-162				
tert-Butylbenzene	9.1		"	10.0		91.4	77-138				
Tetrachloroethylene	4.6		"	10.0		46.0	82-131	Low Bias			
Toluene	10		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	9.8		"	10.0		98.2	80-132				
trans-1,3-Dichloropropylene	9.5		"	10.0		95.4	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		102	63-141				
Trichloroethylene	8.9		"	10.0		89.2	82-128				
Trichlorofluoromethane	14		"	10.0		143	67-139	High Bias			
Vinyl Chloride	11		"	10.0		113	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.9*		*"*	*10.0*		*109*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.91*		*"*	*10.0*		*99.1*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.0*		*"*	*10.0*		*100*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
LCS Dup (BK30891-BSD1)							Prepared & Analyzed: 11/14/2023				
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		89.3	82-126		1.78	30	
1,1,1-Trichloroethane	10		"	10.0		100	78-136		1.78	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		99.7	76-129		2.18	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.8		"	10.0		98.1	54-165		0.819	30	
1,1,2-Trichloroethane	8.9		"	10.0		88.9	82-123		1.89	30	
1,1-Dichloroethane	9.4		"	10.0		93.5	82-129		2.53	30	
1,1-Dichloroethylene	9.8		"	10.0		97.5	68-138		0.715	30	
1,2,3-Trichlorobenzene	8.4		"	10.0		84.1	40-130		0.836	30	
1,2,3-Trichloropropane	9.6		"	10.0		95.8	77-128		0.523	30	
1,2,4-Trichlorobenzene	8.6		"	10.0		86.1	65-137		2.35	30	
1,2,4-Trimethylbenzene	10		"	10.0		101	82-132		1.30	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		100	45-147		3.33	30	
1,2-Dibromoethane	9.2		"	10.0		91.7	83-124		1.41	30	
1,2-Dichlorobenzene	9.3		"	10.0		92.9	79-123		1.41	30	
1,2-Dichloroethane	11		"	10.0		107	73-132		4.57	30	
1,2-Dichloropropane	8.9		"	10.0		88.6	78-126		0.787	30	
1,3,5-Trimethylbenzene	10		"	10.0		99.6	80-131		1.52	30	
1,3-Dichlorobenzene	9.2		"	10.0		92.0	86-130		1.20	30	
1,4-Dichlorobenzene	9.0		"	10.0		90.3	85-130		1.45	30	
1,4-Dioxane	70		"	210		33.4	10-349		4.91	30	
2-Butanone	8.4		"	10.0		84.5	49-152		7.63	30	
2-Hexanone	7.2		"	10.0		72.2	51-146		3.80	30	
4-Methyl-2-pentanone	8.3		"	10.0		82.6	57-145		4.27	30	
Acetone	4.7		"	10.0		46.8	14-150		0.851	30	
Acrolein	8.6		"	10.0		86.2	10-153		3.53	30	
Acrylonitrile	9.0		"	10.0		89.6	51-150		1.88	30	
Benzene	10		"	10.0		101	85-126		1.86	30	
Bromochloromethane	9.6		"	10.0		95.5	77-128		3.09	30	
Bromodichloromethane	9.5		"	10.0		94.6	79-128		0.317	30	
Bromoform	7.9		"	10.0		79.3	78-133		2.98	30	
Bromomethane	8.3		"	10.0		82.8	43-168		0.484	30	
Carbon disulfide	9.2		"	10.0		92.2	68-146		2.36	30	
Carbon tetrachloride	10		"	10.0		99.6	77-141		0.900	30	
Chlorobenzene	9.7		"	10.0		97.2	88-120		0.718	30	
Chloroethane	11		"	10.0		111	65-136		3.46	30	
Chloroform	9.8		"	10.0		98.0	82-128		1.92	30	
Chloromethane	9.6		"	10.0		96.3	43-155		7.01	30	
cis-1,2-Dichloroethylene	10		"	10.0		100	83-129		2.36	30	
cis-1,3-Dichloropropylene	8.9		"	10.0		89.1	80-131		1.01	30	
Cyclohexane	9.3		"	10.0		92.9	63-149		3.07	30	
Dibromochloromethane	9.0		"	10.0		90.1	80-130		1.54	30	
Dibromomethane	9.3		"	10.0		92.6	72-134		0.216	30	
Dichlorodifluoromethane	11		"	10.0		110	44-144		3.14	30	
Ethyl Benzene	10		"	10.0		102	80-131		0.0978	30	
Hexachlorobutadiene	8.6		"	10.0		86.4	67-146		4.01	30	
Isopropylbenzene	9.8		"	10.0		98.3	76-140		2.26	30	
Methyl acetate	7.8		"	10.0		78.2	51-139		5.11	30	
Methyl tert-butyl ether (MTBE)	9.5		"	10.0		95.3	76-135		2.38	30	
Methylcyclohexane	9.0		"	10.0		89.6	72-143		0.897	30	
Methylene chloride	9.4		"	10.0		94.3	55-137		1.26	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
LCS Dup (BK30891-BSD1)								Prepared & Analyzed: 11/14/2023			
n-Butylbenzene	9.3		ug/L	10.0		92.8	79-132		3.96	30	
n-Propylbenzene	9.8		"	10.0		97.9	78-133		1.96	30	
o-Xylene	10		"	10.0		101	78-130		0.00	30	
p- & m- Xylenes	21		"	20.0		103	77-133		0.916	30	
p-Isopropyltoluene	10		"	10.0		100	81-136		3.46	30	
sec-Butylbenzene	9.9		"	10.0		99.4	79-137		2.86	30	
Styrene	10		"	10.0		100	67-132		1.49	30	
tert-Butyl alcohol (TBA)	47		"	50.0		94.1	25-162		5.88	30	
tert-Butylbenzene	9.4		"	10.0		94.5	77-138		3.34	30	
Tetrachloroethylene	4.6		"	10.0		45.8	82-131	Low Bias	0.436	30	
Toluene	10		"	10.0		101	80-127		0.693	30	
trans-1,2-Dichloroethylene	9.6		"	10.0		96.3	80-132		1.95	30	
trans-1,3-Dichloropropylene	9.4		"	10.0		93.9	78-131		1.58	30	
trans-1,4-dichloro-2-butene	10		"	10.0		103	63-141		0.683	30	
Trichloroethylene	8.9		"	10.0		89.3	82-128		0.112	30	
Trichlorofluoromethane	14		"	10.0		139	67-139		2.91	30	
Vinyl Chloride	11		"	10.0		106	58-145		6.39	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				
Matrix Spike (BK30891-MS1)	*Source sample: 23K0649-04 (Matrix Spike)							Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	11		ug/L	10.0	0.0	113	45-161				
1,1,1-Trichloroethane	14		"	10.0	0.0	136	70-146				
1,1,2,2-Tetrachloroethane	12		"	10.0	0.0	119	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0	0.0	116	21-217				
1,1,2-Trichloroethane	11		"	10.0	0.0	111	59-146				
1,1-Dichloroethane	12		"	10.0	0.0	123	54-146				
1,1-Dichloroethylene	12		"	10.0	0.0	124	44-165				
1,2,3-Trichlorobenzene	9.5		"	10.0	0.0	94.8	40-161				
1,2,3-Trichloropropane	12		"	10.0	0.0	116	74-127				
1,2,4-Trichlorobenzene	9.9		"	10.0	0.0	98.6	41-161				
1,2,4-Trimethylbenzene	12		"	10.0	0.65	118	72-129				
1,2-Dibromo-3-chloropropane	12		"	10.0	0.0	124	31-151				
1,2-Dibromoethane	11		"	10.0	0.0	113	75-125				
1,2-Dichlorobenzene	12		"	10.0	0.0	116	63-122				
1,2-Dichloroethane	14		"	10.0	0.0	141	68-131	High Bias			
1,2-Dichloropropane	11		"	10.0	0.0	109	77-121				
1,3,5-Trimethylbenzene	12		"	10.0	0.0	118	69-126				
1,3-Dichlorobenzene	11		"	10.0	0.0	110	74-119				
1,4-Dichlorobenzene	12		"	10.0	1.1	108	70-124				
1,4-Dioxane	82		"	210	0.0	39.0	10-310				
2-Butanone	11		"	10.0	0.0	110	10-193				
2-Hexanone	9.2		"	10.0	0.0	91.8	53-133				
4-Methyl-2-pentanone	10		"	10.0	0.0	104	38-150				
Acetone	6.2		"	10.0	0.0	62.5	13-149				
Acrolein	8.0		"	10.0	0.0	80.5	10-195				
Acrylonitrile	11		"	10.0	0.0	107	37-165				
Benzene	13		"	10.0	0.0	132	38-155				
Bromochloromethane	13		"	10.0	0.0	128	75-121	High Bias			

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
Matrix Spike (BK30891-MS1)	*Source sample: 23K0649-04 (Matrix Spike)							Prepared & Analyzed: 11/14/2023			
Bromodichloromethane	12		ug/L	10.0	0.0	117	70-129				
Bromoform	10		"	10.0	0.0	100	66-136				
Bromomethane	4.8		"	10.0	0.0	48.4	30-158				
Carbon disulfide	12		"	10.0	0.0	117	10-138				
Carbon tetrachloride	13		"	10.0	0.0	134	71-146				
Chlorobenzene	18		"	10.0	4.9	126	81-117	High Bias			
Chloroethane	16		"	10.0	0.0	161	51-145	High Bias			
Chloroform	13		"	10.0	0.0	128	80-124	High Bias			
Chloromethane	13		"	10.0	0.0	128	16-163				
cis-1,2-Dichloroethylene	13		"	10.0	0.49	128	76-125	High Bias			
cis-1,3-Dichloropropylene	11		"	10.0	0.0	107	58-131				
Cyclohexane	12		"	10.0	0.0	121	70-130				
Dibromochloromethane	11		"	10.0	0.0	115	71-129				
Dibromomethane	12		"	10.0	0.0	116	76-120				
Dichlorodifluoromethane	14		"	10.0	0.0	138	30-147				
Ethyl Benzene	13		"	10.0	0.0	130	72-128	High Bias			
Hexachlorobutadiene	9.9		"	10.0	0.0	99.1	34-166				
Isopropylbenzene	12		"	10.0	0.0	119	66-139				
Methyl acetate	9.4		"	10.0	0.0	94.1	10-200				
Methyl tert-butyl ether (MTBE)	12		"	10.0	0.0	120	75-128				
Methylcyclohexane	10		"	10.0	0.0	103	70-130				
Methylene chloride	250		"	10.0	200	502	57-128	High Bias			
n-Butylbenzene	11		"	10.0	0.93	96.0	61-138				
n-Propylbenzene	11		"	10.0	0.0	115	66-134				
o-Xylene	13		"	10.0	0.0	127	69-126	High Bias			
p- & m- Xylenes	27		"	20.0	0.56	130	67-130				
p-Isopropyltoluene	12		"	10.0	0.0	116	64-137				
sec-Butylbenzene	12		"	10.0	0.0	116	53-155				
Styrene	13		"	10.0	0.0	126	69-125	High Bias			
tert-Butyl alcohol (TBA)	59		"	50.0	0.0	117	10-130				
tert-Butylbenzene	12		"	10.0	0.64	113	65-139				
Tetrachloroethylene	5.6		"	10.0	0.0	56.0	64-139	Low Bias			
Toluene	13		"	10.0	0.0	128	76-123	High Bias			
trans-1,2-Dichloroethylene	13		"	10.0	0.0	128	79-131				
trans-1,3-Dichloropropylene	11		"	10.0	0.0	112	55-130				
trans-1,4-dichloro-2-butene	12		"	10.0	0.0	123	25-155				
Trichloroethylene	11		"	10.0	0.0	113	53-145				
Trichlorofluoromethane	20		"	10.0	0.0	200	61-142	High Bias			
Vinyl Chloride	15		"	10.0	0.0	150	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.3*		*"*	*10.0*		*113*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.72*		*"*	*10.0*		*97.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.75*		*"*	*10.0*		*97.5*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
Matrix Spike Dup (BK30891-MSD1)	*Source sample: 23K0649-04 (Matrix Spike Dup)								Prepared & Analyzed: 11/14/2023		
1,1,1,2-Tetrachloroethane	11		ug/L	10.0	0.0	108	45-161		4.24	30	
1,1,1-Trichloroethane	13		"	10.0	0.0	131	70-146		3.67	30	
1,1,2,2-Tetrachloroethane	12		"	10.0	0.0	117	74-121		1.69	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0	0.0	123	21-217		5.84	30	
1,1,2-Trichloroethane	11		"	10.0	0.0	105	59-146		5.19	30	
1,1-Dichloroethane	12		"	10.0	0.0	119	54-146		2.98	30	
1,1-Dichloroethylene	13		"	10.0	0.0	126	44-165		1.20	30	
1,2,3-Trichlorobenzene	10		"	10.0	0.0	100	40-161		5.54	30	
1,2,3-Trichloropropane	11		"	10.0	0.0	113	74-127		2.09	30	
1,2,4-Trichlorobenzene	10		"	10.0	0.0	102	41-161		3.29	30	
1,2,4-Trimethylbenzene	12		"	10.0	0.65	116	72-129		1.88	30	
1,2-Dibromo-3-chloropropane	12		"	10.0	0.0	121	31-151		1.71	30	
1,2-Dibromoethane	11		"	10.0	0.0	109	75-125		3.60	30	
1,2-Dichlorobenzene	11		"	10.0	0.0	113	63-122		2.10	30	
1,2-Dichloroethane	14		"	10.0	0.0	138	68-131	High Bias	1.65	30	
1,2-Dichloropropane	10		"	10.0	0.0	105	77-121		4.12	30	
1,3,5-Trimethylbenzene	12		"	10.0	0.0	116	69-126		1.53	30	
1,3-Dichlorobenzene	11		"	10.0	0.0	110	74-119		0.273	30	
1,4-Dichlorobenzene	12		"	10.0	1.1	108	70-124		0.556	30	
1,4-Dioxane	82		"	210	0.0	38.9	10-310		0.110	30	
2-Butanone	10		"	10.0	0.0	105	10-193		4.74	30	
2-Hexanone	8.7		"	10.0	0.0	87.3	53-133		5.03	30	
4-Methyl-2-pentanone	10		"	10.0	0.0	101	38-150		3.03	30	
Acetone	6.3		"	10.0	0.0	62.6	13-149		0.160	30	
Acrolein	8.7		"	10.0	0.0	86.7	10-195		7.42	30	
Acrylonitrile	11		"	10.0	0.0	109	37-165		1.48	30	
Benzene	13		"	10.0	0.0	129	38-155		1.92	30	
Bromochloromethane	13		"	10.0	0.0	126	75-121	High Bias	1.41	30	
Bromodichloromethane	11		"	10.0	0.0	112	70-129		3.84	30	
Bromoform	9.7		"	10.0	0.0	97.0	66-136		3.35	30	
Bromomethane	6.9		"	10.0	0.0	68.8	30-158		34.8	30	Non-dir.
Carbon disulfide	12		"	10.0	0.0	121	10-138		2.86	30	
Carbon tetrachloride	13		"	10.0	0.0	131	71-146		2.35	30	
Chlorobenzene	17		"	10.0	4.9	123	81-117	High Bias	2.17	30	
Chloroethane	15		"	10.0	0.0	150	51-145	High Bias	6.68	30	
Chloroform	12		"	10.0	0.0	124	80-124		3.97	30	
Chloromethane	12		"	10.0	0.0	120	16-163		6.70	30	
cis-1,2-Dichloroethylene	13		"	10.0	0.49	121	76-125		5.14	30	
cis-1,3-Dichloropropylene	10		"	10.0	0.0	103	58-131		3.89	30	
Cyclohexane	12		"	10.0	0.0	119	70-130		1.17	30	
Dibromochloromethane	11		"	10.0	0.0	110	71-129		3.82	30	
Dibromomethane	11		"	10.0	0.0	111	76-120		4.15	30	
Dichlorodifluoromethane	14		"	10.0	0.0	140	30-147		0.863	30	
Ethyl Benzene	13		"	10.0	0.0	126	72-128		3.21	30	
Hexachlorobutadiene	10		"	10.0	0.0	101	34-166		2.20	30	
Isopropylbenzene	12		"	10.0	0.0	116	66-139		2.37	30	
Methyl acetate	9.3		"	10.0	0.0	92.8	10-200		1.39	30	
Methyl tert-butyl ether (MTBE)	12		"	10.0	0.0	117	75-128		2.53	30	
Methylcyclohexane	10		"	10.0	0.0	104	70-130		0.774	30	
Methylene chloride	250		"	10.0	200	493	57-128	High Bias	1.85	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30891 - EPA 5030B											
Matrix Spike Dup (BK30891-MSD1)	*Source sample: 23K0649-04 (Matrix Spike Dup)								Prepared & Analyzed: 11/14/2023		
n-Butylbenzene	11		ug/L	10.0	0.93	97.4	61-138		1.45	30	
n-Propylbenzene	11		"	10.0	0.0	113	66-134		1.14	30	
o-Xylene	12		"	10.0	0.0	123	69-126		3.28	30	
p- & m- Xylenes	26		"	20.0	0.56	126	67-130		3.16	30	
p-Isopropyltoluene	12		"	10.0	0.0	115	64-137		0.519	30	
sec-Butylbenzene	12		"	10.0	0.0	115	53-155		0.778	30	
Styrene	12		"	10.0	0.0	122	69-125		3.14	30	
tert-Butyl alcohol (TBA)	58		"	50.0	0.0	116	10-130		1.25	30	
tert-Butylbenzene	12		"	10.0	0.64	110	65-139		2.43	30	
Tetrachloroethylene	5.6		"	10.0	0.0	56.0	64-139	Low Bias	0.00	30	
Toluene	12		"	10.0	0.0	122	76-123		4.40	30	
trans-1,2-Dichloroethylene	13		"	10.0	0.0	126	79-131		1.89	30	
trans-1,3-Dichloropropylene	11		"	10.0	0.0	109	55-130		3.07	30	
trans-1,4-dichloro-2-butene	12		"	10.0	0.0	121	25-155		1.89	30	
Trichloroethylene	11		"	10.0	0.0	109	53-145		3.79	30	
Trichlorofluoromethane	19		"	10.0	0.0	190	61-142	High Bias	5.02	30	
Vinyl Chloride	15		"	10.0	0.0	148	31-165		1.28	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.2*		*"*	*10.0*		*112*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.69*		*"*	*10.0*		*96.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.74*		*"*	*10.0*		*97.4*	*79-122*				
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK1)									Prepared & Analyzed: 11/15/2023		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK1)									Prepared & Analyzed: 11/15/2023		
Benzene	ND	0.0050	mg/kg wet								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.9*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.5*		*"*	*50.0*		*89.0*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.0*		*"*	*50.0*		*97.9*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK2)											Prepared & Analyzed: 11/15/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

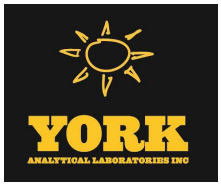
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK2)								Prepared & Analyzed: 11/15/2023			
Methylene chloride	ND	1.0	mg/kg wet								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.5*		*ug/L*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.3*		*"*	*50.0*		*88.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.9*		*"*	*50.0*		*97.7*	*76-130*				
LCS (BK30956-BS1)								Prepared & Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	42		ug/L	50.0		83.3	75-129				
1,1,1-Trichloroethane	50		"	50.0		99.5	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		95.7	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	61		"	50.0		122	58-146				
1,1,2-Trichloroethane	48		"	50.0		96.7	83-123				
1,1-Dichloroethane	50		"	50.0		99.2	75-130				
1,1-Dichloroethylene	64		"	50.0		129	64-137				
1,2,3-Trichlorobenzene	51		"	50.0		102	81-140				
1,2,3-Trichloropropane	49		"	50.0		98.1	81-126				
1,2,4-Trichlorobenzene	50		"	50.0		100	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		87.2	84-125				
1,2-Dibromo-3-chloropropane	37		"	50.0		74.7	74-142				
1,2-Dibromoethane	47		"	50.0		93.5	86-123				
1,2-Dichlorobenzene	46		"	50.0		92.8	85-122				
1,2-Dichloroethane	56		"	50.0		111	71-133				
1,2-Dichloropropane	42		"	50.0		84.5	81-122				
1,3,5-Trimethylbenzene	42		"	50.0		84.1	82-126				
1,3-Dichlorobenzene	47		"	50.0		94.1	84-124				
1,4-Dichlorobenzene	46		"	50.0		92.4	84-124				
1,4-Dioxane	420		"	1050		40.3	10-228				
2-Butanone	50		"	50.0		101	58-147				
2-Hexanone	38		"	50.0		76.8	70-139				
4-Methyl-2-pentanone	31		"	50.0		61.0	72-132	Low Bias			
Acetone	51		"	50.0		101	36-155				
Acrolein	130		"	50.0		266	10-238	High Bias			
Acrylonitrile	57		"	50.0		115	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
LCS (BK30956-BS1)								Prepared & Analyzed: 11/15/2023			
Benzene	53		ug/L	50.0		106	77-127				
Bromochloromethane	52		"	50.0		104	74-129				
Bromodichloromethane	41		"	50.0		82.1	81-124				
Bromoform	47		"	50.0		93.8	80-136				
Bromomethane	40		"	50.0		79.4	32-177				
Carbon disulfide	50		"	50.0		101	10-136				
Carbon tetrachloride	50		"	50.0		99.1	66-143				
Chlorobenzene	49		"	50.0		97.3	86-120				
Chloroethane	38		"	50.0		75.1	51-142				
Chloroform	54		"	50.0		108	76-131				
Chloromethane	38		"	50.0		76.5	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		101	74-132				
cis-1,3-Dichloropropylene	39		"	50.0		78.0	81-129	Low Bias			
Cyclohexane	52		"	50.0		105	70-130				
Dibromochloromethane	45		"	50.0		89.3	10-200				
Dibromomethane	47		"	50.0		94.6	83-124				
Dichlorodifluoromethane	62		"	50.0		123	28-158				
Ethyl Benzene	44		"	50.0		88.2	84-125				
Hexachlorobutadiene	49		"	50.0		99.0	83-133				
Isopropylbenzene	44		"	50.0		87.7	81-127				
Methyl acetate	52		"	50.0		104	41-143				
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.9	74-131				
Methylcyclohexane	38		"	50.0		76.8	70-130				
Methylene chloride	48		"	50.0		96.6	57-141				
n-Butylbenzene	40		"	50.0		80.8	80-130				
n-Propylbenzene	42		"	50.0		84.2	74-136				
o-Xylene	41		"	50.0		81.9	83-123	Low Bias			
p- & m- Xylenes	88		"	100		88.4	82-128				
p-Isopropyltoluene	44		"	50.0		87.0	85-125				
sec-Butylbenzene	43		"	50.0		85.9	83-125				
Styrene	41		"	50.0		82.3	86-126	Low Bias			
tert-Butyl alcohol (TBA)	230		"	250		93.1	70-130				
tert-Butylbenzene	40		"	50.0		80.3	80-127				
Tetrachloroethylene	37		"	50.0		74.0	80-129	Low Bias			
Toluene	44		"	50.0		88.0	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		100	72-132				
trans-1,3-Dichloropropylene	38		"	50.0		76.2	78-132	Low Bias			
trans-1,4-dichloro-2-butene	47		"	50.0		93.8	75-135				
Trichloroethylene	43		"	50.0		85.4	84-123				
Trichlorofluoromethane	44		"	50.0		88.7	62-140				
Vinyl Chloride	39		"	50.0		77.6	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.8*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.3*		*"*	*50.0*		*88.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.3*	*76-130*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
LCS Dup (BK30956-BSD1)								Prepared & Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	42		ug/L	50.0		84.5	75-129		1.36	30	
1,1,1-Trichloroethane	51		"	50.0		103	71-137		3.11	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		96.4	79-129		0.750	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46		"	50.0		91.2	58-146		29.0	30	
1,1,2-Trichloroethane	48		"	50.0		96.5	83-123		0.207	30	
1,1-Dichloroethane	51		"	50.0		102	75-130		2.49	30	
1,1-Dichloroethylene	44		"	50.0		88.7	64-137		36.9	30	Non-dir.
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140		1.93	30	
1,2,3-Trichloropropane	50		"	50.0		99.0	81-126		0.913	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	80-141		1.66	30	
1,2,4-Trimethylbenzene	46		"	50.0		91.7	84-125		4.96	30	
1,2-Dibromo-3-chloropropane	37		"	50.0		73.5	74-142	Low Bias	1.59	30	
1,2-Dibromoethane	46		"	50.0		92.8	86-123		0.816	30	
1,2-Dichlorobenzene	48		"	50.0		95.9	85-122		3.29	30	
1,2-Dichloroethane	55		"	50.0		110	71-133		1.17	30	
1,2-Dichloropropane	43		"	50.0		86.9	81-122		2.78	30	
1,3,5-Trimethylbenzene	44		"	50.0		88.4	82-126		4.94	30	
1,3-Dichlorobenzene	49		"	50.0		97.6	84-124		3.59	30	
1,4-Dichlorobenzene	48		"	50.0		96.0	84-124		3.78	30	
1,4-Dioxane	390		"	1050		37.4	10-228		7.63	30	
2-Butanone	49		"	50.0		97.8	58-147		3.14	30	
2-Hexanone	38		"	50.0		75.8	70-139		1.36	30	
4-Methyl-2-pentanone	30		"	50.0		59.7	72-132	Low Bias	2.15	30	
Acetone	32		"	50.0		65.0	36-155		43.6	30	Non-dir.
Acrolein	67		"	50.0		134	10-238		65.9	30	Non-dir.
Acrylonitrile	56		"	50.0		112	66-141		2.06	30	
Benzene	54		"	50.0		109	77-127		2.33	30	
Bromochloromethane	52		"	50.0		103	74-129		1.17	30	
Bromodichloromethane	41		"	50.0		82.3	81-124		0.292	30	
Bromoform	45		"	50.0		90.3	80-136		3.82	30	
Bromomethane	44		"	50.0		87.1	32-177		9.18	30	
Carbon disulfide	51		"	50.0		102	10-136		1.50	30	
Carbon tetrachloride	51		"	50.0		103	66-143		3.61	30	
Chlorobenzene	50		"	50.0		100	86-120		2.68	30	
Chloroethane	42		"	50.0		84.3	51-142		11.5	30	
Chloroform	55		"	50.0		110	76-131		1.69	30	
Chloromethane	41		"	50.0		83.0	49-132		8.18	30	
cis-1,2-Dichloroethylene	51		"	50.0		103	74-132		1.73	30	
cis-1,3-Dichloropropylene	39		"	50.0		78.3	81-129	Low Bias	0.461	30	
Cyclohexane	54		"	50.0		108	70-130		3.55	30	
Dibromochloromethane	44		"	50.0		88.0	10-200		1.44	30	
Dibromomethane	47		"	50.0		93.4	83-124		1.25	30	
Dichlorodifluoromethane	64		"	50.0		128	28-158		3.91	30	
Ethyl Benzene	46		"	50.0		91.6	84-125		3.83	30	
Hexachlorobutadiene	52		"	50.0		104	83-133		5.33	30	
Isopropylbenzene	47		"	50.0		93.2	81-127		6.01	30	
Methyl acetate	50		"	50.0		100	41-143		3.54	30	
Methyl tert-butyl ether (MTBE)	47		"	50.0		94.6	74-131		1.41	30	
Methylcyclohexane	40		"	50.0		80.8	70-130		5.07	30	
Methylene chloride	49		"	50.0		97.1	57-141		0.516	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
LCS Dup (BK30956-BSD1)									Prepared & Analyzed: 11/15/2023		
n-Butylbenzene	43		ug/L	50.0		85.3	80-130		5.42	30	
n-Propylbenzene	45		"	50.0		89.0	74-136		5.61	30	
o-Xylene	42		"	50.0		84.1	83-123		2.65	30	
p- & m- Xylenes	92		"	100		91.7	82-128		3.65	30	
p-Isopropyltoluene	46		"	50.0		92.1	85-125		5.67	30	
sec-Butylbenzene	46		"	50.0		91.1	83-125		5.87	30	
Styrene	42		"	50.0		84.0	86-126	Low Bias	2.09	30	
tert-Butyl alcohol (TBA)	220		"	250		89.6	70-130		3.84	30	
tert-Butylbenzene	42		"	50.0		84.7	80-127		5.31	30	
Tetrachloroethylene	38		"	50.0		76.5	80-129	Low Bias	3.40	30	
Toluene	46		"	50.0		91.2	85-121		3.59	30	
trans-1,2-Dichloroethylene	52		"	50.0		104	72-132		3.44	30	
trans-1,3-Dichloropropylene	38		"	50.0		76.0	78-132	Low Bias	0.210	30	
trans-1,4-dichloro-2-butene	47		"	50.0		93.7	75-135		0.0427	30	
Trichloroethylene	44		"	50.0		88.3	84-123		3.27	30	
Trichlorofluoromethane	48		"	50.0		96.5	62-140		8.45	30	
Vinyl Chloride	42		"	50.0		84.6	52-130		8.70	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.6*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.4*		*"*	*50.0*		*88.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.2*		*"*	*50.0*		*96.4*	*76-130*				
Batch BK31036 - EPA 5035A											
Blank (BK31036-BLK1)									Prepared & Analyzed: 11/16/2023		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31036 - EPA 5035A											
Blank (BK31036-BLK1)											Prepared & Analyzed: 11/16/2023
Benzene	ND	0.0050	mg/kg wet								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.8*		*ug/L*	*50.0*		*95.7*	*77-125*				
Surrogate: SURR: Toluene-d8	*43.7*		*"*	*50.0*		*87.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.8*		*"*	*50.0*		*97.5*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31036 - EPA 5035A											
Blank (BK31036-BLK2)											Prepared & Analyzed: 11/16/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31036 - EPA 5035A											
Blank (BK31036-BLK2)								Prepared & Analyzed: 11/16/2023			
Methylene chloride	ND	1.0	mg/kg wet								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.1*		*ug/L*	*50.0*		*96.3*	*77-125*				
Surrogate: SURR: Toluene-d8	*43.8*		*"*	*50.0*		*87.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.9*		*"*	*50.0*		*97.7*	*76-130*				
LCS (BK31036-BS1)								Prepared & Analyzed: 11/16/2023			
1,1,1,2-Tetrachloroethane	40		ug/L	50.0		79.6	75-129				
1,1,1-Trichloroethane	52		"	50.0		103	71-137				
1,1,2,2-Tetrachloroethane	46		"	50.0		91.4	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.4	58-146				
1,1,2-Trichloroethane	47		"	50.0		93.0	83-123				
1,1-Dichloroethane	51		"	50.0		102	75-130				
1,1-Dichloroethylene	42		"	50.0		84.0	64-137				
1,2,3-Trichlorobenzene	51		"	50.0		101	81-140				
1,2,3-Trichloropropane	47		"	50.0		93.5	81-126				
1,2,4-Trichlorobenzene	50		"	50.0		101	80-141				
1,2,4-Trimethylbenzene	45		"	50.0		89.1	84-125				
1,2-Dibromo-3-chloropropane	31		"	50.0		62.8	74-142	Low Bias			
1,2-Dibromoethane	45		"	50.0		89.5	86-123				
1,2-Dichlorobenzene	46		"	50.0		92.7	85-122				
1,2-Dichloroethane	54		"	50.0		108	71-133				
1,2-Dichloropropane	42		"	50.0		84.8	81-122				
1,3,5-Trimethylbenzene	43		"	50.0		86.2	82-126				
1,3-Dichlorobenzene	48		"	50.0		95.4	84-124				
1,4-Dichlorobenzene	47		"	50.0		93.4	84-124				
1,4-Dioxane	380		"	1050		35.9	10-228				
2-Butanone	47		"	50.0		94.9	58-147				
2-Hexanone	35		"	50.0		70.3	70-139				
4-Methyl-2-pentanone	28		"	50.0		56.9	72-132	Low Bias			
Acetone	26		"	50.0		51.7	36-155				
Acrolein	41		"	50.0		82.5	10-238				
Acrylonitrile	54		"	50.0		108	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31036 - EPA 5035A											
LCS (BK31036-BS1)								Prepared & Analyzed: 11/16/2023			
Benzene	55		ug/L	50.0		110	77-127				
Bromochloromethane	50		"	50.0		101	74-129				
Bromodichloromethane	38		"	50.0		75.6	81-124	Low Bias			
Bromoform	41		"	50.0		81.7	80-136				
Bromomethane	42		"	50.0		84.8	32-177				
Carbon disulfide	51		"	50.0		102	10-136				
Carbon tetrachloride	48		"	50.0		96.4	66-143				
Chlorobenzene	49		"	50.0		97.1	86-120				
Chloroethane	42		"	50.0		83.0	51-142				
Chloroform	54		"	50.0		108	76-131				
Chloromethane	48		"	50.0		95.6	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		103	74-132				
cis-1,3-Dichloropropylene	39		"	50.0		78.5	81-129	Low Bias			
Cyclohexane	55		"	50.0		110	70-130				
Dibromochloromethane	40		"	50.0		80.5	10-200				
Dibromomethane	44		"	50.0		88.6	83-124				
Dichlorodifluoromethane	59		"	50.0		119	28-158				
Ethyl Benzene	45		"	50.0		89.3	84-125				
Hexachlorobutadiene	51		"	50.0		103	83-133				
Isopropylbenzene	45		"	50.0		90.9	81-127				
Methyl acetate	49		"	50.0		97.0	41-143				
Methyl tert-butyl ether (MTBE)	52		"	50.0		105	74-131				
Methylcyclohexane	40		"	50.0		79.5	70-130				
Methylene chloride	48		"	50.0		96.4	57-141				
n-Butylbenzene	41		"	50.0		82.1	80-130				
n-Propylbenzene	43		"	50.0		86.2	74-136				
o-Xylene	41		"	50.0		82.1	83-123	Low Bias			
p- & m- Xylenes	89		"	100		89.3	82-128				
p-Isopropyltoluene	45		"	50.0		90.7	85-125				
sec-Butylbenzene	45		"	50.0		89.1	83-125				
Styrene	42		"	50.0		83.3	86-126	Low Bias			
tert-Butyl alcohol (TBA)	280		"	250		110	70-130				
tert-Butylbenzene	42		"	50.0		83.9	80-127				
Tetrachloroethylene	38		"	50.0		75.9	80-129	Low Bias			
Toluene	45		"	50.0		89.3	85-121				
trans-1,2-Dichloroethylene	51		"	50.0		102	72-132				
trans-1,3-Dichloropropylene	38		"	50.0		76.3	78-132	Low Bias			
trans-1,4-dichloro-2-butene	46		"	50.0		91.0	75-135				
Trichloroethylene	43		"	50.0		85.9	84-123				
Trichlorofluoromethane	44		"	50.0		88.3	62-140				
Vinyl Chloride	44		"	50.0		88.7	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.3*		*"*	*50.0*		*96.6*	*77-125*				
Surrogate: SURR: Toluene-d8	*43.6*		*"*	*50.0*		*87.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.0*		*"*	*50.0*		*96.0*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

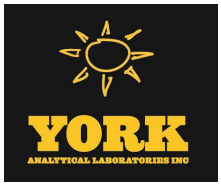
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31036 - EPA 5035A											
LCS Dup (BK31036-BSD1)								Prepared & Analyzed: 11/16/2023			
1,1,1,2-Tetrachloroethane	41		ug/L	50.0		82.6	75-129		3.77	30	
1,1,1-Trichloroethane	55		"	50.0		109	71-137		5.66	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		95.3	79-129		4.18	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		96.4	58-146		8.68	30	
1,1,2-Trichloroethane	49		"	50.0		97.5	83-123		4.74	30	
1,1-Dichloroethane	53		"	50.0		107	75-130		4.29	30	
1,1-Dichloroethylene	45		"	50.0		89.9	64-137		6.86	30	
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140		2.90	30	
1,2,3-Trichloropropane	50		"	50.0		99.6	81-126		6.24	30	
1,2,4-Trichlorobenzene	51		"	50.0		103	80-141		1.92	30	
1,2,4-Trimethylbenzene	46		"	50.0		92.6	84-125		3.79	30	
1,2-Dibromo-3-chloropropane	35		"	50.0		70.1	74-142	Low Bias	11.0	30	
1,2-Dibromoethane	47		"	50.0		94.6	86-123		5.56	30	
1,2-Dichlorobenzene	48		"	50.0		95.9	85-122		3.35	30	
1,2-Dichloroethane	55		"	50.0		110	71-133		2.35	30	
1,2-Dichloropropane	43		"	50.0		86.8	81-122		2.35	30	
1,3,5-Trimethylbenzene	45		"	50.0		90.0	82-126		4.27	30	
1,3-Dichlorobenzene	49		"	50.0		98.4	84-124		3.03	30	
1,4-Dichlorobenzene	48		"	50.0		96.2	84-124		3.02	30	
1,4-Dioxane	440		"	1050		42.3	10-228		16.5	30	
2-Butanone	53		"	50.0		107	58-147		11.8	30	
2-Hexanone	39		"	50.0		78.5	70-139		10.9	30	
4-Methyl-2-pentanone	31		"	50.0		62.6	72-132	Low Bias	9.57	30	
Acetone	37		"	50.0		74.1	36-155		35.5	30	Non-dir.
Acrolein	43		"	50.0		86.2	10-238		4.43	30	
Acrylonitrile	61		"	50.0		123	66-141		12.2	30	
Benzene	58		"	50.0		115	77-127		4.33	30	
Bromochloromethane	52		"	50.0		103	74-129		2.74	30	
Bromodichloromethane	39		"	50.0		78.8	81-124	Low Bias	4.09	30	
Bromoform	43		"	50.0		86.0	80-136		5.13	30	
Bromomethane	43		"	50.0		86.0	32-177		1.40	30	
Carbon disulfide	54		"	50.0		109	10-136		5.76	30	
Carbon tetrachloride	51		"	50.0		102	66-143		5.71	30	
Chlorobenzene	51		"	50.0		102	86-120		4.57	30	
Chloroethane	42		"	50.0		83.8	51-142		0.935	30	
Chloroform	56		"	50.0		113	76-131		3.80	30	
Chloromethane	43		"	50.0		85.4	49-132		11.3	30	
cis-1,2-Dichloroethylene	54		"	50.0		107	74-132		4.13	30	
cis-1,3-Dichloropropylene	41		"	50.0		81.2	81-129		3.33	30	
Cyclohexane	58		"	50.0		117	70-130		6.25	30	
Dibromochloromethane	42		"	50.0		84.1	10-200		4.42	30	
Dibromomethane	46		"	50.0		92.1	83-124		3.92	30	
Dichlorodifluoromethane	63		"	50.0		125	28-158		5.49	30	
Ethyl Benzene	47		"	50.0		94.2	84-125		5.36	30	
Hexachlorobutadiene	53		"	50.0		107	83-133		3.97	30	
Isopropylbenzene	48		"	50.0		95.2	81-127		4.62	30	
Methyl acetate	54		"	50.0		108	41-143		11.1	30	
Methyl tert-butyl ether (MTBE)	54		"	50.0		109	74-131		3.95	30	
Methylcyclohexane	42		"	50.0		84.8	70-130		6.45	30	
Methylene chloride	50		"	50.0		99.8	57-141		3.43	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31036 - EPA 5035A											
LCS Dup (BK31036-BSD1)								Prepared & Analyzed: 11/16/2023			
n-Butylbenzene	43		ug/L	50.0		86.3	80-130		5.01	30	
n-Propylbenzene	45		"	50.0		90.8	74-136		5.27	30	
o-Xylene	43		"	50.0		86.1	83-123		4.80	30	
p- & m- Xylenes	94		"	100		93.9	82-128		5.01	30	
p-Isopropyltoluene	47		"	50.0		94.9	85-125		4.55	30	
sec-Butylbenzene	47		"	50.0		93.7	83-125		5.05	30	
Styrene	44		"	50.0		87.2	86-126		4.58	30	
tert-Butyl alcohol (TBA)	320		"	250		129	70-130		16.2	30	
tert-Butylbenzene	44		"	50.0		87.7	80-127		4.45	30	
Tetrachloroethylene	40		"	50.0		80.5	80-129		5.98	30	
Toluene	47		"	50.0		93.5	85-121		4.57	30	
trans-1,2-Dichloroethylene	54		"	50.0		108	72-132		5.26	30	
trans-1,3-Dichloropropylene	40		"	50.0		79.5	78-132		4.13	30	
trans-1,4-dichloro-2-butene	49		"	50.0		97.6	75-135		6.96	30	
Trichloroethylene	45		"	50.0		90.9	84-123		5.63	30	
Trichlorofluoromethane	46		"	50.0		93.0	62-140		5.16	30	
Vinyl Chloride	43		"	50.0		85.4	52-130		3.81	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.8*		*"*	*50.0*		*97.7*	*77-125*				
Surrogate: SURR: Toluene-d8	*43.3*		*"*	*50.0*		*86.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.8*		*"*	*50.0*		*95.5*	*76-130*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Blank (BK31053-BLK1)											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Prepared & Analyzed: 11/16/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Blank (BK31053-BLK1)											Prepared & Analyzed: 11/16/2023
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*1.06*		"	*1.66*		*64.0*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.948*		"	*1.66*		*57.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.543*		"	*0.831*		*65.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.477*		"	*0.831*		*57.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.24*		"	*1.66*		*74.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.523*		"	*0.831*		*62.9*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
LCS (BK31053-BS1)								Prepared & Analyzed: 11/16/2023			
1,1-Biphenyl	0.634	0.0416	mg/kg wet	0.831		76.3	18-111				
1,2,4,5-Tetrachlorobenzene	0.588	0.0830	"	0.831		70.8	21-131				
1,2,4-Trichlorobenzene	0.612	0.0416	"	0.831		73.7	10-140				
1,2-Dichlorobenzene	0.559	0.0416	"	0.831		67.3	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.641	0.0416	"	0.831		77.1	17-137				
1,3-Dichlorobenzene	0.571	0.0416	"	0.831		68.7	33-110				
1,4-Dichlorobenzene	0.589	0.0416	"	0.831		70.9	32-104				
2,3,4,6-Tetrachlorophenol	0.656	0.0830	"	0.831		79.0	30-130				
2,4,5-Trichlorophenol	0.594	0.0416	"	0.831		71.5	27-118				
2,4,6-Trichlorophenol	0.654	0.0416	"	0.831		78.8	31-120				
2,4-Dichlorophenol	0.654	0.0416	"	0.831		78.8	20-127				
2,4-Dimethylphenol	0.528	0.0416	"	0.831		63.5	14-132				
2,4-Dinitrophenol	0.416	0.0830	"	0.831		50.1	10-171				
2,4-Dinitrotoluene	0.769	0.0416	"	0.831		92.6	34-131				
2,6-Dinitrotoluene	0.789	0.0416	"	0.831		95.0	31-128				
2-Chloronaphthalene	0.602	0.0416	"	0.831		72.4	31-117				
2-Chlorophenol	0.625	0.0416	"	0.831		75.2	33-113				
2-Methylnaphthalene	0.580	0.0416	"	0.831		69.9	12-138				
2-Methylphenol	0.622	0.0416	"	0.831		74.9	10-136				
2-Nitroaniline	0.834	0.0830	"	0.831		100	27-132				
2-Nitrophenol	0.893	0.0416	"	0.831		107	17-129				
3- & 4-Methylphenols	0.412	0.0416	"	0.831		49.6	29-103				
3,3-Dichlorobenzidine	1.34	0.0416	"	0.831		162	22-149	High Bias			
3-Nitroaniline	0.733	0.0830	"	0.831		88.2	20-133				
4,6-Dinitro-2-methylphenol	0.968	0.0830	"	0.831		117	10-143				
4-Bromophenyl phenyl ether	0.607	0.0416	"	0.831		73.1	29-120				
4-Chloro-3-methylphenol	0.662	0.0416	"	0.831		79.7	24-129				
4-Chloroaniline	0.333	0.0416	"	0.831		40.0	10-132				
4-Chlorophenyl phenyl ether	0.600	0.0416	"	0.831		72.3	27-124				
4-Nitroaniline	0.737	0.0830	"	0.831		88.7	16-128				
4-Nitrophenol	0.741	0.0830	"	0.831		89.2	10-141				
Acenaphthene	0.584	0.0416	"	0.831		70.3	30-121				
Acenaphthylene	0.586	0.0416	"	0.831		70.6	30-115				
Acetophenone	0.611	0.0416	"	0.831		73.6	20-112				
Aniline	0.311	0.166	"	0.831		37.4	10-119				
Anthracene	0.615	0.0416	"	0.831		74.0	34-118				
Atrazine	0.709	0.0416	"	0.831		85.4	26-112				
Benzaldehyde	0.492	0.0416	"	0.831		59.2	21-100				
Benzo(a)anthracene	0.642	0.0416	"	0.831		77.2	32-122				
Benzo(a)pyrene	0.708	0.0416	"	0.831		85.2	29-133				
Benzo(b)fluoranthene	0.680	0.0416	"	0.831		81.9	25-133				
Benzo(g,h,i)perylene	0.675	0.0416	"	0.831		81.3	10-143				
Benzo(k)fluoranthene	0.673	0.0416	"	0.831		81.0	25-128				
Benzoic acid	0.115	0.0416	"	0.831		13.8	10-140				
Benzyl alcohol	0.628	0.0416	"	0.831		75.6	30-115				
Benzyl butyl phthalate	0.856	0.0416	"	0.831		103	26-126				
Bis(2-chloroethoxy)methane	0.592	0.0416	"	0.831		71.3	19-132				
Bis(2-chloroethyl)ether	0.594	0.0416	"	0.831		71.6	19-125				
Bis(2-chloroisopropyl)ether	0.616	0.0416	"	0.831		74.1	20-135				
Bis(2-ethylhexyl)phthalate	0.946	0.0416	"	0.831		114	10-155				
Caprolactam	0.852	0.0830	"	0.831		103	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
LCS (BK31053-BS1)							Prepared & Analyzed: 11/16/2023				
Carbazole	0.621	0.0416	mg/kg wet	0.831		74.8	35-123				
Chrysene	0.621	0.0416	"	0.831		74.7	32-123				
Dibenzo(a,h)anthracene	0.779	0.0416	"	0.831		93.8	10-136				
Dibenzofuran	0.606	0.0416	"	0.831		72.9	29-121				
Diethyl phthalate	0.590	0.0416	"	0.831		71.1	34-116				
Dimethyl phthalate	0.600	0.0416	"	0.831		72.2	35-124				
Di-n-butyl phthalate	0.713	0.0416	"	0.831		85.9	31-116				
Di-n-octyl phthalate	1.12	0.0416	"	0.831		135	26-136				
Diphenylamine	0.710	0.0830	"	0.831		85.4	40-140				
Fluoranthene	0.613	0.0416	"	0.831		73.8	33-122				
Fluorene	0.584	0.0416	"	0.831		70.4	29-123				
Hexachlorobenzene	0.571	0.0416	"	0.831		68.8	21-124				
Hexachlorobutadiene	0.572	0.0416	"	0.831		68.9	10-149				
Hexachlorocyclopentadiene	0.312	0.0416	"	0.831		37.6	10-129				
Hexachloroethane	0.551	0.0416	"	0.831		66.3	28-108				
Indeno(1,2,3-cd)pyrene	0.778	0.0416	"	0.831		93.7	10-135				
Isophorone	0.637	0.0416	"	0.831		76.7	20-132				
Naphthalene	0.632	0.0416	"	0.831		76.1	23-124				
Nitrobenzene	0.675	0.0416	"	0.831		81.3	13-132				
N-Nitrosodimethylamine	0.561	0.0416	"	0.831		67.6	11-129				
N-nitroso-di-n-propylamine	0.605	0.0416	"	0.831		72.9	24-119				
N-Nitrosodiphenylamine	0.682	0.0416	"	0.831		82.2	22-152				
Pentachlorophenol	0.401	0.0416	"	0.831		48.2	10-139				
Phenanthrene	0.608	0.0416	"	0.831		73.2	33-123				
Phenol	0.626	0.0416	"	0.831		75.3	23-115				
Pyrene	0.626	0.0416	"	0.831		75.4	32-130				
Surrogate: SURR: 2-Fluorophenol	*1.23*		"	*1.66*		*74.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.18*		"	*1.66*		*70.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.680*		"	*0.831*		*81.8*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.595*		"	*0.831*		*71.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.48*		"	*1.66*		*88.9*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.648*		"	*0.831*		*78.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike (BK31053-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
1,1-Biphenyl	0.305	0.0504	mg/kg dry	1.01	ND	30.3	10-130				
1,2,4,5-Tetrachlorobenzene	0.322	0.101	"	1.01	ND	32.0	10-133				
1,2,4-Trichlorobenzene	0.317	0.0504	"	1.01	ND	31.5	10-127				
1,2-Dichlorobenzene	0.302	0.0504	"	1.01	ND	30.0	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.326	0.0504	"	1.01	ND	32.4	10-144				
1,3-Dichlorobenzene	0.301	0.0504	"	1.01	ND	30.0	11-111				
1,4-Dichlorobenzene	0.289	0.0504	"	1.01	ND	28.7	10-106				
2,3,4,6-Tetrachlorophenol	0.0708	0.101	"	1.01	ND	7.04	30-130	Low Bias			
2,4,5-Trichlorophenol	0.231	0.0504	"	1.01	ND	23.0	10-127				
2,4,6-Trichlorophenol	0.249	0.0504	"	1.01	ND	24.7	10-132				
2,4-Dichlorophenol	0.292	0.0504	"	1.01	ND	29.0	10-128				
2,4-Dimethylphenol	0.281	0.0504	"	1.01	ND	28.0	10-137				
2,4-Dinitrophenol	ND	0.101	"	1.01	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.374	0.0504	"	1.01	ND	37.2	16-135				
2,6-Dinitrotoluene	0.399	0.0504	"	1.01	ND	39.6	18-131				
2-Chloronaphthalene	0.314	0.0504	"	1.01	ND	31.2	10-129				
2-Chlorophenol	0.329	0.0504	"	1.01	ND	32.7	15-116				
2-Methylnaphthalene	0.310	0.0504	"	1.01	0.0279	28.0	10-147				
2-Methylphenol	0.321	0.0504	"	1.01	ND	31.9	10-136				
2-Nitroaniline	0.442	0.101	"	1.01	ND	43.9	10-137				
2-Nitrophenol	0.440	0.0504	"	1.01	ND	43.7	10-129				
3- & 4-Methylphenols	0.208	0.0504	"	1.01	ND	20.7	10-123				
3,3-Dichlorobenzidine	0.766	0.0504	"	1.01	ND	76.2	10-155				
3-Nitroaniline	0.381	0.101	"	1.01	ND	37.9	12-133				
4,6-Dinitro-2-methylphenol	ND	0.101	"	1.01	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	0.310	0.0504	"	1.01	ND	30.8	14-128				
4-Chloro-3-methylphenol	0.334	0.0504	"	1.01	ND	33.2	10-134				
4-Chloroaniline	0.205	0.0504	"	1.01	ND	20.4	10-145				
4-Chlorophenyl phenyl ether	0.318	0.0504	"	1.01	ND	31.6	14-130				
4-Nitroaniline	0.428	0.101	"	1.01	ND	42.5	10-147				
4-Nitrophenol	0.405	0.101	"	1.01	ND	40.3	10-137				
Acenaphthene	0.322	0.0504	"	1.01	0.0574	26.3	10-146				
Acenaphthylene	0.330	0.0504	"	1.01	0.0343	29.4	10-134				
Acetophenone	0.305	0.0504	"	1.01	ND	30.3	10-116				
Aniline	0.155	0.202	"	1.01	ND	15.4	10-123				
Anthracene	0.334	0.0504	"	1.01	0.141	19.2	10-142				
Atrazine	0.353	0.0504	"	1.01	ND	35.1	19-115				
Benzaldehyde	0.258	0.0504	"	1.01	ND	25.6	10-125				
Benzo(a)anthracene	0.453	0.0504	"	1.01	0.336	11.7	10-158				
Benzo(a)pyrene	0.500	0.0504	"	1.01	0.311	18.7	10-180				
Benzo(b)fluoranthene	0.507	0.0504	"	1.01	0.278	22.7	10-200				
Benzo(g,h,i)perylene	0.433	0.0504	"	1.01	0.192	24.0	10-138				
Benzo(k)fluoranthene	0.402	0.0504	"	1.01	0.239	16.2	10-197				
Benzoic acid	ND	0.0504	"	1.01	ND		10-166	Low Bias			
Benzyl alcohol	0.324	0.0504	"	1.01	ND	32.2	12-124				
Benzyl butyl phthalate	0.457	0.0504	"	1.01	ND	45.4	10-154				
Bis(2-chloroethoxy)methane	0.324	0.0504	"	1.01	ND	32.2	10-132				
Bis(2-chloroethyl)ether	0.332	0.0504	"	1.01	ND	33.0	10-119				
Bis(2-chloroisopropyl)ether	0.317	0.0504	"	1.01	ND	31.5	10-139				
Bis(2-ethylhexyl)phthalate	0.521	0.0504	"	1.01	ND	51.8	10-167				
Caprolactam	0.230	0.101	"	1.01	ND	22.9	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike (BK31053-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
Carbazole	0.330	0.0504	mg/kg dry	1.01	0.0478	28.0	10-167				
Chrysene	0.455	0.0504	"	1.01	0.297	15.7	10-156				
Dibenzo(a,h)anthracene	0.423	0.0504	"	1.01	0.0574	36.4	10-137				
Dibenzofuran	0.315	0.0504	"	1.01	0.0391	27.4	10-147				
Diethyl phthalate	0.310	0.0504	"	1.01	ND	30.8	20-120				
Dimethyl phthalate	0.307	0.0504	"	1.01	ND	30.5	18-131				
Di-n-butyl phthalate	0.363	0.0504	"	1.01	ND	36.1	10-137				
Di-n-octyl phthalate	0.574	0.0504	"	1.01	ND	57.1	10-180				
Diphenylamine	0.369	0.101	"	1.01	ND	36.7	40-140	Low Bias			
Fluoranthene	0.535	0.0504	"	1.01	0.591	NR	10-160	Low Bias			
Fluorene	0.322	0.0504	"	1.01	0.0574	26.3	10-157				
Hexachlorobenzene	0.321	0.0504	"	1.01	ND	31.9	10-137				
Hexachlorobutadiene	0.298	0.0504	"	1.01	ND	29.6	10-132				
Hexachlorocyclopentadiene	ND	0.0504	"	1.01	ND		10-106	Low Bias			
Hexachloroethane	0.254	0.0504	"	1.01	ND	25.2	10-110				
Indeno(1,2,3-cd)pyrene	0.552	0.0504	"	1.01	0.257	29.3	10-144				
Isophorone	0.340	0.0504	"	1.01	ND	33.8	10-132				
Naphthalene	0.353	0.0504	"	1.01	0.0335	31.7	10-141				
Nitrobenzene	0.339	0.0504	"	1.01	ND	33.6	10-131				
N-Nitrosodimethylamine	0.289	0.0504	"	1.01	ND	28.7	10-126				
N-nitroso-di-n-propylamine	0.312	0.0504	"	1.01	ND	31.0	10-125				
N-Nitrosodiphenylamine	0.331	0.0504	"	1.01	ND	32.9	10-177				
Pentachlorophenol	ND	0.0504	"	1.01	ND		10-153	Low Bias			
Phenanthrene	0.433	0.0504	"	1.01	0.482	NR	10-148	Low Bias			
Phenol	0.328	0.0504	"	1.01	ND	32.6	10-126				
Pyrene	0.565	0.0504	"	1.01	0.568	NR	10-165	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*0.609*		*"*	*2.01*		*30.2*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.615*		*"*	*2.01*		*30.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.354*		*"*	*1.01*		*35.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.297*		*"*	*1.01*		*29.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.487*		*"*	*2.01*		*24.2*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.340*		*"*	*1.01*		*33.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike Dup (BK31053-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/16/2023		
1,1-Biphenyl	0.359	0.0504	mg/kg dry	1.01	ND	35.6	10-130		16.1	30	
1,2,4,5-Tetrachlorobenzene	0.316	0.101	"	1.01	ND	31.4	10-133		2.02	30	
1,2,4-Trichlorobenzene	0.361	0.0504	"	1.01	ND	35.9	10-127		13.2	30	
1,2-Dichlorobenzene	0.347	0.0504	"	1.01	ND	34.5	14-111		14.0	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.330	0.0504	"	1.01	ND	32.8	10-144		0.982	30	
1,3-Dichlorobenzene	0.335	0.0504	"	1.01	ND	33.3	11-111		10.6	30	
1,4-Dichlorobenzene	0.336	0.0504	"	1.01	ND	33.4	10-106		15.2	30	
2,3,4,6-Tetrachlorophenol	0.237	0.101	"	1.01	ND	23.6	30-130	Low Bias		30	
2,4,5-Trichlorophenol	0.298	0.0504	"	1.01	ND	29.6	10-127		25.4	30	
2,4,6-Trichlorophenol	0.330	0.0504	"	1.01	ND	32.8	10-132		28.2	30	
2,4-Dichlorophenol	0.363	0.0504	"	1.01	ND	36.1	10-128		21.9	30	
2,4-Dimethylphenol	0.311	0.0504	"	1.01	ND	30.9	10-137		9.93	30	
2,4-Dinitrophenol	ND	0.101	"	1.01	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.410	0.0504	"	1.01	ND	40.8	16-135		9.13	30	
2,6-Dinitrotoluene	0.422	0.0504	"	1.01	ND	41.9	18-131		5.59	30	
2-Chloronaphthalene	0.361	0.0504	"	1.01	ND	35.8	10-129		14.0	30	
2-Chlorophenol	0.364	0.0504	"	1.01	ND	36.2	15-116		10.2	30	
2-Methylnaphthalene	0.371	0.0504	"	1.01	0.0279	34.1	10-147		18.0	30	
2-Methylphenol	0.364	0.0504	"	1.01	ND	36.2	10-136		12.6	30	
2-Nitroaniline	0.477	0.101	"	1.01	ND	47.4	10-137		7.54	30	
2-Nitrophenol	0.471	0.0504	"	1.01	ND	46.8	10-129		6.90	30	
3- & 4-Methylphenols	0.238	0.0504	"	1.01	ND	23.6	10-123		13.4	30	
3,3-Dichlorobenzidine	0.899	0.0504	"	1.01	ND	89.4	10-155		15.9	30	
3-Nitroaniline	0.465	0.101	"	1.01	ND	46.2	12-133		19.8	30	
4,6-Dinitro-2-methylphenol	0.0906	0.101	"	1.01	ND	9.00	10-155	Low Bias		30	
4-Bromophenyl phenyl ether	0.348	0.0504	"	1.01	ND	34.6	14-128		11.8	30	
4-Chloro-3-methylphenol	0.377	0.0504	"	1.01	ND	37.4	10-134		12.0	30	
4-Chloroaniline	0.235	0.0504	"	1.01	ND	23.4	10-145		13.5	30	
4-Chlorophenyl phenyl ether	0.350	0.0504	"	1.01	ND	34.8	14-130		9.64	30	
4-Nitroaniline	0.441	0.101	"	1.01	ND	43.8	10-147		2.97	30	
4-Nitrophenol	0.402	0.101	"	1.01	ND	40.0	10-137		0.798	30	
Acenaphthene	0.342	0.0504	"	1.01	0.0574	28.3	10-146		5.82	30	
Acenaphthylene	0.339	0.0504	"	1.01	0.0343	30.3	10-134		2.77	30	
Acetophenone	0.342	0.0504	"	1.01	ND	34.0	10-116		11.5	30	
Aniline	0.187	0.202	"	1.01	ND	18.6	10-123			30	
Anthracene	0.376	0.0504	"	1.01	0.141	23.3	10-142		11.7	30	
Atrazine	0.374	0.0504	"	1.01	ND	37.2	19-115		5.75	30	
Benzaldehyde	0.283	0.0504	"	1.01	ND	28.1	10-125		9.08	30	
Benzo(a)anthracene	0.433	0.0504	"	1.01	0.336	9.65	10-158	Low Bias	4.63	30	
Benzo(a)pyrene	0.430	0.0504	"	1.01	0.311	11.9	10-180		14.9	30	
Benzo(b)fluoranthene	0.436	0.0504	"	1.01	0.278	15.6	10-200		15.1	30	
Benzo(g,h,i)perylene	0.407	0.0504	"	1.01	0.192	21.3	10-138		6.42	30	
Benzo(k)fluoranthene	0.402	0.0504	"	1.01	0.239	16.2	10-197		0.100	30	
Benzoic acid	0.915	0.0504	"	1.01	ND	90.9	10-166			30	
Benzyl alcohol	0.356	0.0504	"	1.01	ND	35.4	12-124		9.23	30	
Benzyl butyl phthalate	0.508	0.0504	"	1.01	ND	50.5	10-154		10.7	30	
Bis(2-chloroethoxy)methane	0.357	0.0504	"	1.01	ND	35.5	10-132		9.81	30	
Bis(2-chloroethyl)ether	0.359	0.0504	"	1.01	ND	35.6	10-119		7.81	30	
Bis(2-chloroisopropyl)ether	0.363	0.0504	"	1.01	ND	36.0	10-139		13.5	30	
Bis(2-ethylhexyl)phthalate	0.555	0.0504	"	1.01	ND	55.2	10-167		6.36	30	
Caprolactam	0.360	0.101	"	1.01	ND	35.8	10-132		44.0	30	Non-dir.

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike Dup (BK31053-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/16/2023		
Carbazole	0.361	0.0504	mg/kg dry	1.01	0.0478	31.2	10-167		9.08	30	
Chrysene	0.417	0.0504	"	1.01	0.297	12.0	10-156		8.58	30	
Dibenzo(a,h)anthracene	0.448	0.0504	"	1.01	0.0574	38.9	10-137		5.72	30	
Dibenzofuran	0.358	0.0504	"	1.01	0.0391	31.7	10-147		12.8	30	
Diethyl phthalate	0.345	0.0504	"	1.01	ND	34.3	20-120		10.7	30	
Dimethyl phthalate	0.338	0.0504	"	1.01	ND	33.6	18-131		9.74	30	
Di-n-butyl phthalate	0.409	0.0504	"	1.01	ND	40.6	10-137		11.8	30	
Di-n-octyl phthalate	0.648	0.0504	"	1.01	ND	64.4	10-180		12.1	30	
Diphenylamine	0.394	0.101	"	1.01	ND	39.2	40-140	Low Bias	6.54	30	
Fluoranthene	0.438	0.0504	"	1.01	0.591	NR	10-160	Low Bias	19.9	30	
Fluorene	0.346	0.0504	"	1.01	0.0574	28.7	10-157		7.35	30	
Hexachlorobenzene	0.318	0.0504	"	1.01	ND	31.6	10-137		0.882	30	
Hexachlorobutadiene	0.361	0.0504	"	1.01	ND	35.9	10-132		19.0	30	
Hexachlorocyclopentadiene	ND	0.0504	"	1.01	ND		10-106	Low Bias		30	
Hexachloroethane	0.289	0.0504	"	1.01	ND	28.8	10-110		13.2	30	
Indeno(1,2,3-cd)pyrene	0.469	0.0504	"	1.01	0.257	21.1	10-144		16.2	30	
Isophorone	0.378	0.0504	"	1.01	ND	37.6	10-132		10.7	30	
Naphthalene	0.431	0.0504	"	1.01	0.0335	39.5	10-141		20.0	30	
Nitrobenzene	0.404	0.0504	"	1.01	ND	40.2	10-131		17.7	30	
N-Nitrosodimethylamine	0.322	0.0504	"	1.01	ND	32.0	10-126		11.1	30	
N-nitroso-di-n-propylamine	0.366	0.0504	"	1.01	ND	36.4	10-125		16.2	30	
N-Nitrosodiphenylamine	0.367	0.0504	"	1.01	ND	36.5	10-177		10.4	30	
Pentachlorophenol	ND	0.0504	"	1.01	ND		10-153	Low Bias		30	
Phenanthrene	0.386	0.0504	"	1.01	0.482	NR	10-148	Low Bias	11.6	30	
Phenol	0.356	0.0504	"	1.01	ND	35.4	10-126		8.36	30	
Pyrene	0.464	0.0504	"	1.01	0.568	NR	10-165	Low Bias	19.5	30	
Surrogate: SURR: 2-Fluorophenol	*0.698*		*"*	*2.01*		*34.7*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.677*		*"*	*2.01*		*33.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.386*		*"*	*1.01*		*38.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.336*		*"*	*1.01*		*33.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.658*		*"*	*2.01*		*32.7*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.371*		*"*	*1.01*		*36.9*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30961 - EPA 3550C											
Blank (BK30961-BLK1)								Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	ND	0.0198	mg/kg								
Surrogate: 1,4-Dioxane-d8	*0.361*		"	*0.495*		*73.0*	*39-127.5*				
LCS (BK30961-BS1)								Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495		106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.330*		"	*0.495*		*66.7*	*39-127.5*				
Matrix Spike (BK30961-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.524	0.0198	mg/kg	0.495	ND	106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.319*		"	*0.495*		*64.4*	*40-130*				
Matrix Spike (BK30961-MS2)	*Source sample: 23K0704-05 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495	ND	106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.362*		"	*0.495*		*73.1*	*40-130*				
Matrix Spike Dup (BK30961-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495	ND	106	40-130		0.377	30	
Surrogate: 1,4-Dioxane-d8	*0.323*		"	*0.495*		*65.2*	*40-130*				
Matrix Spike Dup (BK30961-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.542	0.0198	mg/kg	0.495	ND	109	40-130		2.97	30	
Surrogate: 1,4-Dioxane-d8	*0.251*		"	*0.495*		*50.7*	*40-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Blank (BK30912-BLK1)											
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.399	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.758	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.766	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.798	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.399	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.399	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.399	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.749	"								
HFPO-DA (Gen-X)	ND	0.798	"								
11CL-PF3OUdS	ND	0.754	"								
9CL-PF3ONS	ND	0.747	"								
ADONA	ND	0.754	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.998	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.99	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.99	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.13*		"	*1.94*		*110*	*25-150*				
Surrogate: M5PFHxA	*2.46*		"	*2.08*		*118*	*25-150*				
Surrogate: M4PFHpA	*2.90*		"	*2.08*		*139*	*25-150*				
Surrogate: M3PFHxS	*2.06*		"	*1.97*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.59*		"	*2.08*		*76.3*	*25-150*				
Surrogate: M6PFDA	*0.790*		"	*1.04*		*76.2*	*25-150*				
Surrogate: M7PFUdA	*0.822*		"	*1.04*		*79.2*	*25-150*				

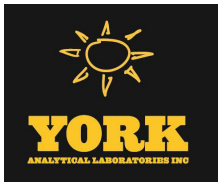
Prepared: 11/14/2023 Analyzed: 11/17/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Blank (BK30912-BLK1)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.864*		*ug/kg wet*	*1.04*		*83.3*	*25-150*				
Surrogate: M2PFTeDA	*0.675*		*"*	*1.04*		*65.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.289*		*"*	*8.33*		*3.47*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.42*		*"*	*1.99*		*71.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.38*		*"*	*4.16*		*33.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*0.893*		*"*	*2.08*		*42.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.92*		*"*	*4.16*		*46.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.93*		*"*	*4.16*		*46.4*	*25-150*				
Surrogate: M2-6:2 FTS	*1.31*		*"*	*3.95*		*33.1*	*25-200*				
Surrogate: M2-8:2 FTS	*1.15*		*"*	*3.99*		*28.9*	*25-200*				
Surrogate: M9PFNA	*0.818*		*"*	*1.04*		*78.8*	*25-150*				
Surrogate: M2-4:2 FTS	*1.51*		*"*	*3.90*		*38.7*	*25-150*				
Surrogate: d-N-MeFOSA	*0.710*		*"*	*2.08*		*34.1*	*25-150*				
Surrogate: d-N-EtFOSA	*1.16*		*"*	*2.08*		*55.8*	*25-150*				
Surrogate: M3HFPO-DA	*8.35*		*"*	*8.33*		*100*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.8*		*"*	*20.8*		*66.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*17.9*		*"*	*20.8*		*86.2*	*25-150*				
LCS (BK30912-BS1)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Perfluorobutanesulfonic acid (PFBS)	3.84	0.175	ug/kg wet	3.49		110	50-150				
Perfluorohexanoic acid (PFHxA)	3.46	0.197	"	3.94		87.7	50-150				
Perfluoroheptanoic acid (PFHpA)	2.66	0.197	"	3.94		67.3	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.53	0.180	"	3.61		97.9	50-150				
Perfluorooctanoic acid (PFOA)	4.00	0.197	"	3.94		101	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.65	0.183	"	3.67		99.4	50-150				
Perfluorononanoic acid (PFNA)	3.98	0.197	"	3.94		101	50-150				
Perfluorodecanoic acid (PFDA)	3.47	0.197	"	3.94		87.9	50-150				
Perfluoroundecanoic acid (PFUnA)	4.03	0.197	"	3.94		102	50-150				
Perfluorododecanoic acid (PFDoA)	4.17	0.197	"	3.94		106	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.56	0.197	"	3.94		116	50-150				
Perfluorotetradecanoic acid (PFTA)	3.99	0.197	"	3.94		101	50-150				
N-MeFOSAA	3.94	0.197	"	3.94		99.9	50-150				
N-EtFOSAA	4.07	0.197	"	3.94		103	50-150				
Perfluoropentanoic acid (PFPeA)	7.42	0.394	"	7.89		94.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.88	0.197	"	3.94		124	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.85	0.197	"	3.77		102	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.59	0.190	"	3.81		120	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	16.8	0.750	"	15.0		112	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.8	0.757	"	15.1		104	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.0	0.789	"	15.8		82.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.79	0.351	"	7.02		54.0	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.11	0.394	"	7.89		77.4	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.22	0.394	"	7.89		15.5	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	10.8	0.394	"	7.89		137	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.01	0.185	"	3.71		108	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
LCS (BK30912-BS1)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.2	0.740	ug/kg wet	14.8		96.2	50-150				
HFPO-DA (Gen-X)	7.45	0.789	"	7.89		94.4	50-150				
11CL-PF3OUdS	7.14	0.746	"	7.46		95.8	50-150				
9CL-PF3ONS	6.53	0.738	"	7.38		88.5	50-150				
ADONA	9.77	0.746	"	7.46		131	50-150				
Perfluorododecanesulfonic acid (PFDoS)	3.64	0.191	"	3.83		95.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	5.06	0.189	"	3.79		134	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	7.11	0.986	"	15.8		45.0	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	46.3	4.93	"	78.9		58.7	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	46.1	4.93	"	78.9		58.4	50-150				
N-MeFOSE	33.3	1.97	"	39.4		84.5	50-150				
N-MeFOSA	3.46	0.197	"	3.94		87.8	50-150				
N-EtFOSE	32.6	1.97	"	39.4		82.7	50-150				
N-EtFOSA	1.55	0.197	"	3.94		39.3	50-150	Low Bias			
Surrogate: M3PFBS	*2.14*		"	*1.91*		*112*	*25-150*				
Surrogate: M5PFHxA	*2.59*		"	*2.06*		*126*	*25-150*				
Surrogate: M4PFHpA	*3.01*		"	*2.06*		*146*	*25-150*				
Surrogate: M3PFHxS	*2.24*		"	*1.95*		*115*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.85*		"	*2.06*		*89.8*	*25-150*				
Surrogate: M6PFDA	*1.06*		"	*1.03*		*104*	*25-150*				
Surrogate: M7PFUdA	*1.07*		"	*1.03*		*105*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.11*		"	*1.03*		*108*	*25-150*				
Surrogate: M2PFTeDA	*0.843*		"	*1.03*		*82.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.277*		"	*8.23*		*3.37*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.57*		"	*1.97*		*79.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.75*		"	*4.11*		*42.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.29*		"	*2.06*		*63.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.01*		"	*4.11*		*73.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.69*		"	*4.11*		*65.5*	*25-150*				
Surrogate: M2-6:2 FTS	*1.63*		"	*3.91*		*41.7*	*25-200*				
Surrogate: M2-8:2 FTS	*1.69*		"	*3.94*		*42.9*	*25-200*				
Surrogate: M9PFNA	*1.01*		"	*1.03*		*98.2*	*25-150*				
Surrogate: M2-4:2 FTS	*1.85*		"	*3.86*		*47.9*	*25-150*				
Surrogate: d-N-MeFOSA	*1.07*		"	*2.06*		*52.1*	*25-150*				
Surrogate: d-N-EtFOSA	*1.63*		"	*2.06*		*79.5*	*25-150*				
Surrogate: M3HFPO-DA	*8.24*		"	*8.23*		*100*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.0*		"	*20.6*		*92.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*24.3*		"	*20.6*		*118*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
LCS (BK30912-BS2)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Perfluorobutanesulfonic acid (PFBS)	0.795	0.174	ug/kg wet	0.695		114	50-150				
Perfluorohexanoic acid (PFHxA)	0.706	0.196	"	0.786		89.9	50-150				
Perfluoroheptanoic acid (PFHpA)	0.589	0.196	"	0.786		74.9	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.726	0.180	"	0.719		101	50-150				
Perfluorooctanoic acid (PFOA)	0.782	0.196	"	0.786		99.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.595	0.183	"	0.731		81.5	50-150				
Perfluorononanoic acid (PFNA)	0.713	0.196	"	0.786		90.8	50-150				
Perfluorodecanoic acid (PFDA)	0.746	0.196	"	0.786		94.9	50-150				
Perfluoroundecanoic acid (PFUnA)	0.833	0.196	"	0.786		106	50-150				
Perfluorododecanoic acid (PFDoA)	0.939	0.196	"	0.786		119	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.902	0.196	"	0.786		115	50-150				
Perfluorotetradecanoic acid (PFTA)	0.760	0.196	"	0.786		96.7	50-150				
N-MeFOSAA	0.812	0.196	"	0.786		103	50-150				
N-EtFOSAA	0.774	0.196	"	0.786		98.5	50-150				
Perfluoropentanoic acid (PFPeA)	1.47	0.393	"	1.57		93.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.954	0.196	"	0.786		121	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.932	0.196	"	0.750		124	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.973	0.190	"	0.758		128	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.32	0.747	"	2.99		111	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.38	0.754	"	3.02		112	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.87	0.786	"	3.14		91.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.749	0.350	"	1.40		53.6	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.916	0.393	"	1.57		58.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.447	0.393	"	1.57		28.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.84	0.393	"	1.57		117	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.756	0.185	"	0.739		102	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.74	0.737	"	2.95		93.0	50-150				
HFPO-DA (Gen-X)	1.58	0.786	"	1.57		101	50-150				
11CL-PF3OUdS	1.25	0.743	"	1.49		84.1	50-150				
9CL-PF3ONS	1.22	0.735	"	1.47		83.2	50-150				
ADONA	2.01	0.743	"	1.49		136	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.728	0.191	"	0.762		95.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.780	0.189	"	0.754		103	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	1.70	0.982	"	3.14		54.0	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	9.22	4.91	"	15.7		58.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	6.65	4.91	"	15.7		42.3	50-150	Low Bias			
N-MeFOSE	7.16	1.96	"	7.86		91.2	50-150				
N-MeFOSA	0.650	0.196	"	0.786		82.7	50-150				
N-EtFOSE	6.81	1.96	"	7.86		86.7	50-150				
N-EtFOSA	0.275	0.196	"	0.786		35.0	50-150	Low Bias			
Surrogate: M3PFBS	*2.02*		"	*1.91*		*106*	*25-150*				
Surrogate: M5PFHxA	*2.87*		"	*2.05*		*140*	*25-150*				
Surrogate: M4PFHpA	*3.24*		"	*2.05*		*158*	*25-150*				
Surrogate: M3PFHxS	*2.50*		"	*1.94*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.19*		"	*2.05*		*107*	*25-150*				
Surrogate: M6PFDA	*1.05*		"	*1.02*		*103*	*25-150*				
Surrogate: M7PFUdA	*1.05*		"	*1.02*		*103*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
LCS (BK30912-BS2)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.998*		*ug/kg wet*	*1.02*		*97.7*	*25-150*				
Surrogate: M2PFTeDA	*0.894*		*"*	*1.02*		*87.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.10*		*"*	*8.20*		*13.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.47*		*"*	*1.96*		*75.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.90*		*"*	*4.09*		*70.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.00*		*"*	*2.05*		*49.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.32*		*"*	*4.09*		*56.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.25*		*"*	*4.09*		*54.9*	*25-150*				
Surrogate: M2-6:2 FTS	*2.11*		*"*	*3.89*		*54.2*	*25-200*				
Surrogate: M2-8:2 FTS	*1.30*		*"*	*3.93*		*33.1*	*25-200*				
Surrogate: M9PFNA	*1.05*		*"*	*1.02*		*103*	*25-150*				
Surrogate: M2-4:2 FTS	*1.63*		*"*	*3.84*		*42.4*	*25-150*				
Surrogate: d-N-MeFOSA	*0.810*		*"*	*2.05*		*39.6*	*25-150*				
Surrogate: d-N-EtFOSA	*1.79*		*"*	*2.05*		*87.4*	*25-150*				
Surrogate: M3HFPO-DA	*8.97*		*"*	*8.20*		*109*	*25-150*				
Surrogate: d9-N-EtFOSE	*16.7*		*"*	*20.5*		*81.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*21.4*		*"*	*20.5*		*104*	*25-150*				
Matrix Spike (BK30912-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/18/2023			
Perfluorobutanesulfonic acid (PFBS)	4.57	0.214	ug/kg dry	4.27	ND	107	25-150				
Perfluorohexanoic acid (PFHxA)	4.52	0.241	"	4.83	ND	93.6	25-150				
Perfluoroheptanoic acid (PFHpA)	4.10	0.241	"	4.83	ND	85.0	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.47	0.221	"	4.42	ND	101	25-150				
Perfluorooctanoic acid (PFOA)	5.10	0.241	"	4.83	ND	106	25-150				
Perfluorooctanesulfonic acid (PFOS)	5.46	0.224	"	4.49	0.725	106	25-150				
Perfluorononanoic acid (PFNA)	5.28	0.241	"	4.83	ND	109	25-150				
Perfluorodecanoic acid (PFDA)	4.56	0.241	"	4.83	ND	94.5	25-150				
Perfluoroundecanoic acid (PFUnA)	5.43	0.241	"	4.83	ND	112	25-150				
Perfluorododecanoic acid (PFDoA)	5.36	0.241	"	4.83	ND	111	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.02	0.241	"	4.83	ND	104	25-150				
Perfluorotetradecanoic acid (PFTA)	4.33	0.241	"	4.83	ND	89.6	25-150				
N-MeFOSAA	5.02	0.241	"	4.83	ND	104	25-150				
N-EtFOSAA	4.82	0.241	"	4.83	ND	99.9	25-150				
Perfluoropentanoic acid (PFPeA)	9.23	0.483	"	9.65	ND	95.6	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.02	0.241	"	4.83	ND	104	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.69	0.241	"	4.61	ND	102	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	5.14	0.233	"	4.66	ND	110	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	20.3	0.917	"	18.3	ND	111	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	20.2	0.927	"	18.5	ND	109	25-150				
Perfluoro-n-butanoic acid (PFBA)	13.9	0.965	"	19.3	ND	71.8	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.21	0.430	"	8.59	ND	72.3	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.04	0.483	"	9.65	ND	52.2	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.30	0.483	"	9.65	ND	23.8	25-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	20.4	0.483	"	9.65	ND	212	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.31	0.227	"	4.54	ND	94.9	25-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike (BK30912-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.8	0.905	ug/kg dry	18.1	ND	98.3	25-150				
HFPO-DA (Gen-X)	8.87	0.965	"	9.65	ND	91.9	25-150				
11CL-PF3OUdS	11.0	0.912	"	9.12	ND	121	25-150				
9CL-PF3ONS	13.4	0.903	"	9.03	ND	148	25-150				
ADONA	11.3	0.912	"	9.12	ND	124	25-150				
Perfluorododecanesulfonic acid (PFDoS)	4.12	0.234	"	4.68	ND	87.9	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	6.08	0.232	"	4.63	ND	131	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	12.5	1.21	"	19.3	ND	64.7	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	118	6.03	"	96.5	ND	122	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	105	6.03	"	96.5	ND	109	25-150				
N-MeFOSE	44.3	2.41	"	48.3	ND	91.7	25-150				
N-MeFOSA	4.71	0.241	"	4.83	ND	97.7	25-150				
N-EtFOSE	46.9	2.41	"	48.3	ND	97.2	25-150				
N-EtFOSA	13.3	0.241	"	4.83	ND	276	25-150	High Bias			
Surrogate: M3PFBS	*1.64*		"	*2.34*		*69.9*	*25-150*				
Surrogate: M5PFHxA	*2.57*		"	*2.52*		*102*	*25-150*				
Surrogate: M4PFHpA	*3.17*		"	*2.52*		*126*	*25-150*				
Surrogate: M3PFHxS	*3.15*		"	*2.38*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.90*		"	*2.52*		*115*	*25-150*				
Surrogate: M6PFDA	*1.79*		"	*1.25*		*143*	*25-150*				
Surrogate: M7PFUdA	*1.81*		"	*1.25*		*144*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.59*		"	*1.25*		*127*	*25-150*				
Surrogate: M2PFTeDA	*1.36*		"	*1.25*		*109*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.209*		"	*10.1*		*2.07*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.65*		"	*2.41*		*110*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.404*		"	*5.03*		*8.03*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.42*		"	*2.52*		*96.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.59*		"	*5.03*		*91.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.91*		"	*5.03*		*97.7*	*25-150*				
Surrogate: M2-6:2 FTS	*3.64*		"	*4.78*		*76.1*	*25-200*				
Surrogate: M2-8:2 FTS	*4.60*		"	*4.83*		*95.4*	*25-200*				
Surrogate: M9PFNA	*1.47*		"	*1.25*		*117*	*25-150*				
Surrogate: M2-4:2 FTS	*2.99*		"	*4.72*		*63.3*	*25-150*				
Surrogate: d-N-MeFOSA	*1.56*		"	*2.52*		*61.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.58*		"	*2.52*		*62.7*	*25-150*				
Surrogate: M3HFPO-DA	*10.9*		"	*10.1*		*108*	*25-150*				
Surrogate: d9-N-EtFOSE	*15.1*		"	*25.2*		*60.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*17.2*		"	*25.2*		*68.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike (BK30912-MS2)	*Source sample: 23K0704-05 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/18/2023			
Perfluorobutanesulfonic acid (PFBS)	6.54	0.358	ug/kg dry	7.16	ND	91.3	25-150				
Perfluorohexanoic acid (PFHxA)	8.19	0.405	"	8.10	0.241	98.2	25-150				
Perfluoroheptanoic acid (PFHpA)	11.9	0.405	"	8.10	ND	147	25-150				
Perfluorohexanesulfonic acid (PFHxS)	6.24	0.370	"	7.41	ND	84.2	25-150				
Perfluorooctanoic acid (PFOA)	7.59	0.405	"	8.10	ND	93.7	25-150				
Perfluorooctanesulfonic acid (PFOS)	7.75	0.376	"	7.53	ND	103	25-150				
Perfluorononanoic acid (PFNA)	7.63	0.405	"	8.10	ND	94.3	25-150				
Perfluorodecanoic acid (PFDA)	6.63	0.405	"	8.10	ND	81.8	25-150				
Perfluoroundecanoic acid (PFUnA)	10.4	0.405	"	8.10	ND	129	25-150				
Perfluorododecanoic acid (PFDoA)	9.00	0.405	"	8.10	ND	111	25-150				
Perfluorotridecanoic acid (PFTrDA)	8.67	0.405	"	8.10	ND	107	25-150				
Perfluorotetradecanoic acid (PFTA)	8.09	0.405	"	8.10	ND	100	25-150				
N-MeFOSAA	9.37	0.405	"	8.10	ND	116	25-150				
N-EtFOSAA	8.69	0.405	"	8.10	ND	107	25-150				
Perfluoropentanoic acid (PFPeA)	15.6	0.810	"	16.2	ND	96.5	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	6.48	0.405	"	8.10	ND	80.1	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.27	0.405	"	7.73	0.427	75.6	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	6.15	0.391	"	7.81	ND	78.8	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27.2	1.54	"	30.8	ND	88.5	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	36.2	1.55	"	31.1	ND	116	25-150				
Perfluoro-n-butanoic acid (PFBA)	27.5	1.62	"	32.4	ND	84.8	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	23.0	0.720	"	14.4	ND	160	25-150	High Bias			
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.35	0.810	"	16.2	ND	33.0	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	6.88	0.810	"	16.2	ND	42.5	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	17.8	0.810	"	16.2	ND	110	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	6.93	0.380	"	7.61	ND	91.1	25-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	29.0	1.52	"	30.4	ND	95.5	25-150				
HFPO-DA (Gen-X)	14.6	1.62	"	16.2	ND	89.9	25-150				
11CL-PF3OUdS	36.7	1.53	"	15.3	ND	240	25-150	High Bias			
9CL-PF3ONS	40.1	1.51	"	15.1	ND	265	25-150	High Bias			
ADONA	19.8	1.53	"	15.3	ND	129	25-150				
Perfluorododecanesulfonic acid (PFDoS)	5.91	0.393	"	7.85	ND	75.2	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	7.25	0.389	"	7.77	ND	93.3	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	33.1	2.02	"	32.4	ND	102	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	153	10.1	"	162	ND	94.6	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	262	10.1	"	162	ND	162	25-150	High Bias			
N-MeFOSE	70.8	4.05	"	81.0	ND	87.5	25-150				
N-MeFOSA	7.09	0.405	"	8.10	ND	87.6	25-150				
N-EtFOSE	84.6	4.05	"	81.0	ND	104	25-150				
N-EtFOSA	8.16	0.405	"	8.10	ND	101	25-150				
Surrogate: M3PFBS	*4.57*		"	*3.93*		*116*	*25-150*				
Surrogate: M5PFHxA	*4.72*		"	*4.22*		*112*	*25-150*				
Surrogate: M4PFHpA	*2.41*		"	*4.22*		*57.1*	*25-150*				
Surrogate: M3PFHxS	*6.11*		"	*4.00*		*153*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*5.62*		"	*4.22*		*133*	*25-150*				
Surrogate: M6PFDA	*3.09*		"	*2.10*		*147*	*25-150*				
Surrogate: M7PFUdA	*2.69*		"	*2.10*		*128*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike (BK30912-MS2)	*Source sample: 23K0704-05 (Matrix Spike)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.77*		*ug/kg dry*	*2.10*		*131*	*25-150*				
Surrogate: M2PFTeDA	*2.83*		*"*	*2.10*		*134*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.885*		*"*	*16.9*		*5.24*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*5.21*		*"*	*4.04*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.51*		*"*	*8.43*		*29.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.19*		*"*	*4.22*		*52.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.07*		*"*	*8.43*		*60.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.38*		*"*	*8.43*		*63.8*	*25-150*				
Surrogate: M2-6:2 FTS	*9.62*		*"*	*8.01*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*17.2*		*"*	*8.10*		*212*	*25-200*				
Surrogate: M9PFNA	*2.60*		*"*	*2.10*		*124*	*25-150*				
Surrogate: M2-4:2 FTS	*7.48*		*"*	*7.91*		*94.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.70*		*"*	*4.22*		*40.2*	*25-150*				
Surrogate: d-N-EtFOSA	*1.72*		*"*	*4.22*		*40.8*	*25-150*				
Surrogate: M3HFPO-DA	*17.0*		*"*	*16.9*		*101*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.2*		*"*	*42.2*		*45.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*19.3*		*"*	*42.2*		*45.8*	*25-150*				
Matrix Spike Dup (BK30912-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Perfluorobutanesulfonic acid (PFBS)	4.22	0.211	ug/kg dry	4.21	ND	100	25-150		7.94	35	
Perfluorohexanoic acid (PFHxA)	4.12	0.238	"	4.76	ND	86.5	25-150		9.20	35	
Perfluoroheptanoic acid (PFHpA)	3.49	0.238	"	4.76	ND	73.3	25-150		16.1	35	
Perfluorohexanesulfonic acid (PFHxS)	4.52	0.218	"	4.36	ND	104	25-150		1.08	35	
Perfluorooctanoic acid (PFOA)	4.50	0.238	"	4.76	ND	94.5	25-150		12.5	35	
Perfluorooctanesulfonic acid (PFOS)	4.80	0.221	"	4.43	0.725	91.9	25-150		13.0	35	
Perfluorononanoic acid (PFNA)	4.71	0.238	"	4.76	ND	98.9	25-150		11.5	35	
Perfluorodecanoic acid (PFDA)	4.63	0.238	"	4.76	ND	97.3	25-150		1.57	35	
Perfluoroundecanoic acid (PFUnA)	5.12	0.238	"	4.76	ND	107	25-150		5.92	35	
Perfluorododecanoic acid (PFDoA)	4.55	0.238	"	4.76	ND	95.5	25-150		16.4	35	
Perfluorotridecanoic acid (PFTrDA)	4.97	0.238	"	4.76	ND	104	25-150		1.09	35	
Perfluorotetradecanoic acid (PFTA)	4.42	0.238	"	4.76	ND	92.9	25-150		2.16	35	
N-MeFOSAA	5.23	0.238	"	4.76	ND	110	25-150		4.18	35	
N-EtFOSAA	4.78	0.238	"	4.76	ND	100	25-150		0.872	35	
Perfluoropentanoic acid (PFPeA)	8.58	0.476	"	9.52	ND	90.2	25-150		7.22	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.47	0.238	"	4.76	ND	115	25-150		8.59	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.26	0.238	"	4.55	ND	93.6	25-150		9.59	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.23	0.230	"	4.59	ND	92.0	25-150		19.5	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	18.7	0.904	"	18.1	ND	103	25-150		8.11	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	19.6	0.914	"	18.3	ND	107	25-150		2.90	35	
Perfluoro-n-butanoic acid (PFBA)	12.7	0.952	"	19.0	ND	66.8	25-150		8.67	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.64	0.424	"	8.47	ND	66.5	25-150		9.71	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	4.20	0.476	"	9.52	ND	44.1	25-150		18.2	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	3.09	0.476	"	9.52	ND	32.4	25-150		29.1	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	20.7	0.476	"	9.52	ND	218	25-150	High Bias	1.44	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.42	0.224	"	4.47	ND	98.7	25-150		2.53	30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike Dup (BK30912-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.3	0.893	ug/kg dry	17.9	ND	96.9	25-150		2.79	30	
HFPO-DA (Gen-X)	9.30	0.952	"	9.52	ND	97.7	25-150		4.74	30	
11CL-PF3OUdS	10.7	0.900	"	9.00	ND	119	25-150		2.86	30	
9CL-PF3ONS	12.8	0.890	"	8.90	ND	144	25-150		4.50	30	
ADONA	10.9	0.900	"	9.00	ND	121	25-150		3.78	30	
Perfluorododecanesulfonic acid (PFDoS)	3.64	0.231	"	4.62	ND	78.8	25-150		12.3	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	5.01	0.228	"	4.57	ND	110	25-150		19.3	30	
3-Perfluoropropyl propanoic acid (FPrPA)	13.6	1.19	"	19.0	ND	71.7	25-150		8.84	30	
3-Perfluoropentyl propanoic acid (FPePA)	115	5.95	"	95.2	ND	121	25-150		2.23	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	105	5.95	"	95.2	ND	110	25-150		0.323	30	
N-MeFOSE	39.4	2.38	"	47.6	ND	82.7	25-150		11.7	30	
N-MeFOSA	4.17	0.238	"	4.76	ND	87.6	25-150		12.3	30	
N-EtFOSE	43.6	2.38	"	47.6	ND	91.5	25-150		7.41	30	
N-EtFOSA	5.70	0.238	"	4.76	ND	120	25-150		80.1	30	Non-dir.
Surrogate: M3PFBS	*1.53*		"	*2.31*		*66.2*	*25-150*				
Surrogate: M5PFHxA	*2.70*		"	*2.48*		*109*	*25-150*				
Surrogate: M4PFHpA	*3.85*		"	*2.48*		*155*	*25-150*				
Surrogate: M3PFHxS	*2.97*		"	*2.35*		*126*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.15*		"	*2.48*		*127*	*25-150*				
Surrogate: M6PFDA	*1.63*		"	*1.24*		*132*	*25-150*				
Surrogate: M7PFUdA	*1.76*		"	*1.24*		*142*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.65*		"	*1.24*		*133*	*25-150*				
Surrogate: M2PFTeDA	*1.20*		"	*1.24*		*97.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.214*		"	*9.94*		*2.15*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.78*		"	*2.37*		*117*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.284*		"	*4.96*		*5.74*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.15*		"	*2.48*		*86.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.05*		"	*4.96*		*81.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.16*		"	*4.96*		*84.0*	*25-150*				
Surrogate: M2-6:2 FTS	*3.78*		"	*4.71*		*80.3*	*25-200*				
Surrogate: M2-8:2 FTS	*3.96*		"	*4.76*		*83.2*	*25-200*				
Surrogate: M9PFNA	*1.45*		"	*1.24*		*117*	*25-150*				
Surrogate: M2-4:2 FTS	*2.88*		"	*4.65*		*61.9*	*25-150*				
Surrogate: d-N-MeFOSA	*1.64*		"	*2.48*		*66.0*	*25-150*				
Surrogate: d-N-EtFOSA	*1.11*		"	*2.48*		*44.7*	*25-150*				
Surrogate: M3HFPO-DA	*11.2*		"	*9.94*		*113*	*25-150*				
Surrogate: d9-N-EtFOSE	*12.4*		"	*24.8*		*49.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*15.4*		"	*24.8*		*62.1*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

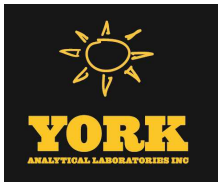
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike Dup (BK30912-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Perfluorobutanesulfonic acid (PFBS)	11.5	0.354	ug/kg dry	7.08	ND	162	25-150	High Bias	54.8	35	Non-dir.
Perfluorohexanoic acid (PFHxA)	8.67	0.400	"	8.00	0.241	105	25-150		5.74	35	
Perfluoroheptanoic acid (PFHpA)	11.8	0.400	"	8.00	ND	148	25-150		0.332	35	
Perfluorohexanesulfonic acid (PFHxS)	6.71	0.366	"	7.32	ND	91.6	25-150		7.28	35	
Perfluorooctanoic acid (PFOA)	7.85	0.400	"	8.00	ND	98.2	25-150		3.44	35	
Perfluorooctanesulfonic acid (PFOS)	7.83	0.372	"	7.44	ND	105	25-150		1.04	35	
Perfluorononanoic acid (PFNA)	8.25	0.400	"	8.00	ND	103	25-150		7.73	35	
Perfluorodecanoic acid (PFDA)	6.85	0.400	"	8.00	ND	85.7	25-150		3.39	35	
Perfluoroundecanoic acid (PFUnA)	9.59	0.400	"	8.00	ND	120	25-150		8.50	35	
Perfluorododecanoic acid (PFDoA)	9.37	0.400	"	8.00	ND	117	25-150		3.93	35	
Perfluorotridecanoic acid (PFTrDA)	7.72	0.400	"	8.00	ND	96.5	25-150		11.5	35	
Perfluorotetradecanoic acid (PFTA)	7.72	0.400	"	8.00	ND	96.4	25-150		4.80	35	
N-MeFOSAA	9.36	0.400	"	8.00	ND	117	25-150		0.0677	35	
N-EtFOSAA	9.16	0.400	"	8.00	ND	115	25-150		5.28	35	
Perfluoropentanoic acid (PFPeA)	13.2	0.800	"	16.0	ND	82.4	25-150		17.0	35	
Perfluoro-1-octanesulfonamide (FOSA)	6.98	0.400	"	8.00	ND	87.2	25-150		7.37	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.98	0.400	"	7.64	0.427	72.7	25-150		4.76	35	
Perfluoro-1-decanesulfonic acid (PFDS)	6.66	0.386	"	7.72	ND	86.3	25-150		7.91	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	25.9	1.52	"	30.4	ND	85.3	25-150		4.94	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	35.1	1.54	"	30.7	ND	114	25-150		2.94	35	
Perfluoro-n-butanoic acid (PFBA)	29.3	1.60	"	32.0	ND	91.5	25-150		6.37	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	22.2	0.712	"	14.2	ND	156	25-150	High Bias	3.45	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	2.86	0.800	"	16.0	ND	17.9	25-150	Low Bias	60.7	30	Non-dir.
Perfluoro-4-oxapentanoic acid (PFMPA)	13.8	0.800	"	16.0	ND	86.0	25-150		66.7	30	Non-dir.
Perfluoro-5-oxahexanoic acid (PFMBA)	11.9	0.800	"	16.0	ND	74.1	25-150		40.1	30	Non-dir.
Perfluoro-1-pentanesulfonate (PFPeS)	6.71	0.376	"	7.52	ND	89.3	25-150		3.23	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	29.0	1.50	"	30.0	ND	96.6	25-150		0.0928	30	
HFPO-DA (Gen-X)	16.7	1.60	"	16.0	ND	104	25-150		13.7	30	
11CL-PF3OUdS	55.2	1.51	"	15.1	ND	365	25-150	High Bias	40.2	30	Non-dir.
9CL-PF3ONS	59.1	1.50	"	15.0	ND	395	25-150	High Bias	38.2	30	Non-dir.
ADONA	29.1	1.51	"	15.1	ND	192	25-150	High Bias	38.0	30	Non-dir.
Perfluorododecanesulfonic acid (PFDoS)	5.79	0.388	"	7.76	ND	74.7	25-150		1.89	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	6.71	0.384	"	7.68	ND	87.4	25-150		7.81	30	
3-Perfluoropropyl propanoic acid (FPrPA)	51.0	2.00	"	32.0	ND	159	25-150	High Bias	42.5	30	Non-dir.
3-Perfluoropentyl propanoic acid (FPePA)	240	10.0	"	160	ND	150	25-150		44.0	30	Non-dir.
3-Perfluoroheptyl propanoic acid (FHpPA)	412	10.0	"	160	ND	257	25-150	High Bias	44.5	30	Non-dir.
N-MeFOSE	71.6	4.00	"	80.0	ND	89.5	25-150		1.07	30	
N-MeFOSA	8.30	0.400	"	8.00	ND	104	25-150		15.7	30	
N-EtFOSE	81.1	4.00	"	80.0	ND	101	25-150		4.20	30	
N-EtFOSA	8.27	0.400	"	8.00	ND	103	25-150		1.36	30	
Surrogate: M3PFBS	*1.03*		"	*3.88*		*26.5*	*25-150*				
Surrogate: M5PFHxA	*2.87*		"	*4.17*		*68.9*	*25-150*				
Surrogate: M4PFHpA	*2.29*		"	*4.17*		*55.0*	*25-150*				
Surrogate: M3PFHxS	*4.73*		"	*3.95*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.73*		"	*4.17*		*114*	*25-150*				
Surrogate: M6PFDA	*2.80*		"	*2.08*		*135*	*25-150*				
Surrogate: M7PFUdA	*3.04*		"	*2.08*		*146*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike Dup (BK30912-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.65*		*ug/kg dry*	*2.08*		*128*	*25-150*				
Surrogate: M2PFTeDA	*2.67*		*"*	*2.08*		*129*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.13*		*"*	*16.7*		*6.74*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*5.82*		*"*	*3.99*		*146*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.62*		*"*	*8.33*		*19.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.48*		*"*	*4.17*		*59.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.97*		*"*	*8.33*		*59.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*6.24*		*"*	*8.33*		*74.9*	*25-150*				
Surrogate: M2-6:2 FTS	*7.86*		*"*	*7.92*		*99.3*	*25-200*				
Surrogate: M2-8:2 FTS	*14.3*		*"*	*8.00*		*179*	*25-200*				
Surrogate: M9PFNA	*2.36*		*"*	*2.08*		*113*	*25-150*				
Surrogate: M2-4:2 FTS	*3.72*		*"*	*7.82*		*47.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.44*		*"*	*4.17*		*34.6*	*25-150*				
Surrogate: d-N-EtFOSA	*1.78*		*"*	*4.17*		*42.7*	*25-150*				
Surrogate: M3HFPO-DA	*10.7*		*"*	*16.7*		*63.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*21.4*		*"*	*41.7*		*51.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*19.4*		*"*	*41.7*		*46.6*	*25-150*				
Batch BK31179 - EPA 1633 Prep											
Blank (BK31179-BLK1)									Prepared & Analyzed: 11/17/2023		
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31179 - EPA 1633 Prep											
Blank (BK31179-BLK1)								Prepared & Analyzed: 11/17/2023			
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	ng/L								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*35.5*		"	*46.6*		*76.2*	*25-150*				
Surrogate: M5PFHxA	*44.9*		"	*50.0*		*89.8*	*25-150*				
Surrogate: M4PFHpA	*66.7*		"	*50.0*		*133*	*25-150*				
Surrogate: M3PFHxS	*59.9*		"	*47.4*		*126*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.3*		"	*50.0*		*111*	*25-150*				
Surrogate: M6PFDA	*31.4*		"	*25.0*		*126*	*25-150*				
Surrogate: M7PFUdA	*31.4*		"	*25.0*		*126*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*24.2*		"	*25.0*		*96.6*	*25-150*				
Surrogate: M2PFTeDA	*8.81*		"	*25.0*		*35.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.11*		"	*200*		*0.557*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*49.9*		"	*47.9*		*104*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.12*		"	*100*		*6.12*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*46.1*		"	*50.0*		*92.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*68.2*		"	*100*		*68.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*63.7*		"	*100*		*63.7*	*25-150*				
Surrogate: M2-6:2 FTS	*48.6*		"	*95.1*		*51.1*	*25-200*				
Surrogate: M2-8:2 FTS	*55.9*		"	*96.0*		*58.3*	*25-200*				
Surrogate: M9PFNA	*30.5*		"	*25.0*		*122*	*25-150*				
Surrogate: M2-4:2 FTS	*40.7*		"	*93.8*		*43.4*	*25-150*				
Surrogate: d-N-MeFOSA	*36.5*		"	*50.0*		*72.9*	*25-150*				
Surrogate: d-N-EtFOSA	*29.9*		"	*50.0*		*59.9*	*25-150*				
Surrogate: M3HFPO-DA	*204*		"	*200*		*102*	*25-150*				
Surrogate: d9-N-EtFOSE	*82.0*		"	*500*		*16.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*159*		"	*500*		*31.8*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31179 - EPA 1633 Prep											
LCS (BK31179-BS1)								Prepared & Analyzed: 11/17/2023			
Perfluorobutanesulfonic acid (PFBS)	67.8	3.54	ng/L	70.8		95.8	50-150				
Perfluorohexanoic acid (PFHxA)	72.2	4.00	"	80.0		90.3	50-150				
Perfluoroheptanoic acid (PFHpA)	63.5	4.00	"	80.0		79.4	50-150				
Perfluorohexanesulfonic acid (PFHxS)	71.7	3.66	"	73.2		98.0	50-150				
Perfluorooctanoic acid (PFOA)	78.7	4.00	"	80.0		98.4	50-150				
Perfluorooctanesulfonic acid (PFOS)	73.8	3.72	"	74.4		99.2	50-150				
Perfluorononanoic acid (PFNA)	67.7	4.00	"	80.0		84.7	50-150				
Perfluorodecanoic acid (PFDA)	67.3	4.00	"	80.0		84.1	50-150				
Perfluoroundecanoic acid (PFUnA)	78.1	4.00	"	80.0		97.7	50-150				
Perfluorododecanoic acid (PFDoA)	82.6	4.00	"	80.0		103	50-150				
Perfluorotridecanoic acid (PFTrDA)	116	4.00	"	80.0		146	50-150				
Perfluorotetradecanoic acid (PFTA)	77.7	4.00	"	80.0		97.2	50-150				
N-MeFOSAA	83.3	4.00	"	80.0		104	50-150				
N-EtFOSAA	83.8	4.00	"	80.0		105	50-150				
Perfluoropentanoic acid (PFPeA)	146	8.00	"	160		91.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	89.1	4.00	"	80.0		111	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	71.1	3.82	"	76.4		93.1	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	66.9	3.86	"	77.2		86.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	365	15.2	"	304		120	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	306	15.4	"	307		99.6	50-150				
Perfluoro-n-butanoic acid (PFBA)	271	16.0	"	320		84.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	117	7.12	"	142		82.4	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	150	8.00	"	160		93.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	19.6	8.00	"	160		12.2	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	214	8.00	"	160		134	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	71.0	3.76	"	75.2		94.4	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	299	15.0	"	300		99.8	50-150				
HFPO-DA (Gen-X)	133	16.0	"	160		83.0	50-150				
11CL-PF3OUdS	104	15.1	"	151		68.7	50-150				
9CL-PF3ONS	147	15.0	"	150		98.2	50-150				
ADONA	133	15.1	"	151		87.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	36.0	3.88	"	77.6		46.4	50-150	Low Bias			
Perfluoro-1-nonanesulfonic acid (PFNS)	84.4	3.84	"	76.8		110	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	268	10.0	"	320		83.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1620	50.0	"	1600		101	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1390	50.0	"	1600		87.1	50-150				
N-MeFOSE	729	40.0	"	800		91.1	50-150				
N-MeFOSA	68.3	4.00	"	80.0		85.4	50-150				
N-EtFOSE	724	40.0	"	800		90.5	50-150				
N-EtFOSA	117	4.00	"	80.0		147	50-150				
Surrogate: M3PFBS	*54.2*		"	*46.6*		*116*	*25-150*				
Surrogate: M5PFHxA	*57.0*		"	*50.0*		*114*	*25-150*				
Surrogate: M4PFHpA	*63.1*		"	*50.0*		*126*	*25-150*				
Surrogate: M3PFHxS	*60.8*		"	*47.4*		*128*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.6*		"	*50.0*		*111*	*25-150*				
Surrogate: M6PFDA	*33.5*		"	*25.0*		*134*	*25-150*				
Surrogate: M7PFUdA	*31.2*		"	*25.0*		*125*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31179 - EPA 1633 Prep											
LCS (BK31179-BS1)								Prepared & Analyzed: 11/17/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.2*		*ng/L*	*25.0*		*105*	*25-150*				
Surrogate: M2PFTeDA	*13.1*		*"*	*25.0*		*52.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*10.2*		*"*	*200*		*5.08*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*47.4*		*"*	*47.9*		*98.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*64.0*		*"*	*100*		*64.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*39.8*		*"*	*50.0*		*79.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*64.2*		*"*	*100*		*64.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*62.9*		*"*	*100*		*62.9*	*25-150*				
Surrogate: M2-6:2 FTS	*59.5*		*"*	*95.1*		*62.6*	*25-200*				
Surrogate: M2-8:2 FTS	*65.3*		*"*	*96.0*		*68.1*	*25-200*				
Surrogate: M9PFNA	*29.0*		*"*	*25.0*		*116*	*25-150*				
Surrogate: M2-4:2 FTS	*63.5*		*"*	*93.8*		*67.7*	*25-150*				
Surrogate: d-N-MeFOSA	*23.7*		*"*	*50.0*		*47.4*	*25-150*				
Surrogate: d-N-EtFOSA	*13.5*		*"*	*50.0*		*27.0*	*25-150*				
Surrogate: M3HFPO-DA	*254*		*"*	*200*		*127*	*25-150*				
Surrogate: d9-N-EtFOSE	*125*		*"*	*500*		*25.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*206*		*"*	*500*		*41.1*	*25-150*				
LCS (BK31179-BS2)								Prepared: 11/17/2023 Analyzed: 11/18/2023			
Perfluorobutanesulfonic acid (PFBS)	14.6	3.54	ng/L	14.2		103	50-150				
Perfluorohexanoic acid (PFHxA)	14.2	4.00	"	16.0		88.6	50-150				
Perfluoroheptanoic acid (PFHpA)	13.5	4.00	"	16.0		84.1	50-150				
Perfluorohexanesulfonic acid (PFHxS)	15.5	3.66	"	14.6		106	50-150				
Perfluorooctanoic acid (PFOA)	15.4	4.00	"	16.0		96.0	50-150				
Perfluorooctanesulfonic acid (PFOS)	15.2	3.72	"	14.9		102	50-150				
Perfluorononanoic acid (PFNA)	14.7	4.00	"	16.0		91.9	50-150				
Perfluorodecanoic acid (PFDA)	14.1	4.00	"	16.0		88.2	50-150				
Perfluoroundecanoic acid (PFUnA)	15.1	4.00	"	16.0		94.3	50-150				
Perfluorododecanoic acid (PFDoA)	15.2	4.00	"	16.0		95.3	50-150				
Perfluorotridecanoic acid (PFTrDA)	28.8	4.00	"	16.0		180	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	16.2	4.00	"	16.0		101	50-150				
N-MeFOSAA	15.8	4.00	"	16.0		98.6	50-150				
N-EtFOSAA	18.5	4.00	"	16.0		115	50-150				
Perfluoropentanoic acid (PFPeA)	31.1	8.00	"	32.0		97.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	19.1	4.00	"	16.0		119	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	15.3	3.82	"	15.3		100	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	11.5	3.86	"	15.4		74.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	65.1	15.2	"	60.8		107	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	57.5	15.4	"	61.4		93.6	50-150				
Perfluoro-n-butanoic acid (PFBA)	56.4	16.0	"	64.0		88.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	24.5	7.12	"	28.5		86.1	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	24.1	8.00	"	32.0		75.5	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	3.17	8.00	"	32.0		9.90	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	48.4	8.00	"	32.0		151	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	14.7	3.76	"	15.0		97.9	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31179 - EPA 1633 Prep											
LCS (BK31179-BS2)								Prepared: 11/17/2023 Analyzed: 11/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	62.7	15.0	ng/L	60.0		105	50-150				
HFPO-DA (Gen-X)	35.2	16.0	"	32.0		110	50-150				
11CL-PF3OUdS	15.0	15.1	"	30.2		49.6	50-150	Low Bias			
9CL-PF3ONS	27.8	15.0	"	29.9		93.0	50-150				
ADONA	29.3	15.1	"	30.2		96.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	3.91	3.88	"	15.5		25.2	50-150	Low Bias			
Perfluoro-1-nonanesulfonic acid (PFNS)	18.7	3.84	"	15.4		122	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	55.3	10.0	"	64.0		86.4	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	329	50.0	"	320		103	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	286	50.0	"	320		89.5	50-150				
N-MeFOSE	132	40.0	"	160		82.4	50-150				
N-MeFOSA	17.3	4.00	"	16.0		108	50-150				
N-EtFOSE	126	40.0	"	160		78.6	50-150				
N-EtFOSA	14.1	4.00	"	16.0		88.3	50-150				
Surrogate: M3PFBS	*56.1*		"	*46.6*		*120*	*25-150*				
Surrogate: M5PFHxA	*63.1*		"	*50.0*		*126*	*25-150*				
Surrogate: M4PFHpA	*64.7*		"	*50.0*		*129*	*25-150*				
Surrogate: M3PFHxS	*62.8*		"	*47.4*		*133*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*55.9*		"	*50.0*		*112*	*25-150*				
Surrogate: M6PFDA	*29.8*		"	*25.0*		*119*	*25-150*				
Surrogate: M7PFUdA	*30.6*		"	*25.0*		*122*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*21.5*		"	*25.0*		*86.1*	*25-150*				
Surrogate: M2PFTeDA	*7.00*		"	*25.0*		*28.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*8.06*		"	*200*		*4.03*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*49.1*		"	*47.9*		*103*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*66.6*		"	*100*		*66.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*41.0*		"	*50.0*		*82.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*55.5*		"	*100*		*55.5*	*25-150*				
Surrogate: d5-N-EtFOSAA	*52.5*		"	*100*		*52.6*	*25-150*				
Surrogate: M2-6:2 FTS	*66.3*		"	*95.1*		*69.7*	*25-200*				
Surrogate: M2-8:2 FTS	*60.8*		"	*96.0*		*63.3*	*25-200*				
Surrogate: M9PFNA	*28.6*		"	*25.0*		*115*	*25-150*				
Surrogate: M2-4:2 FTS	*59.9*		"	*93.8*		*63.8*	*25-150*				
Surrogate: d-N-MeFOSA	*17.3*		"	*50.0*		*34.7*	*25-150*				
Surrogate: d-N-EtFOSA	*12.3*		"	*50.0*		*24.6*	*25-150*				
Surrogate: M3HFPO-DA	*277*		"	*200*		*139*	*25-150*				
Surrogate: d9-N-EtFOSE	*32.7*		"	*500*		*6.54*	*25-150*				
Surrogate: d7-N-MeFOSE	*77.8*		"	*500*		*15.6*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31179 - EPA 1633 Prep											
Duplicate (BK31179-DUP1)	*Source sample: 23K0665-09 (Field Blank)								Prepared: 11/17/2023 Analyzed: 11/18/2023		
Perfluorobutanesulfonic acid (PFBS)	ND	1.64	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	1.85	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	1.85	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.69	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	1.85	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.72	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	1.85	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	1.85	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.85	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.85	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	1.85	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.85	"		ND					30	
N-MeFOSAA	ND	1.85	"		ND					30	
N-EtFOSAA	ND	1.85	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	3.70	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.85	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.77	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.79	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.04	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.11	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	7.41	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.30	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.70	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.70	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	3.70	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.74	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	6.95	"		ND					30	
HFPO-DA (Gen-X)	ND	7.41	"		ND					30	
11CL-PF3OUdS	ND	7.00	"		ND					30	
9CL-PF3ONS	ND	6.93	"		ND					30	
ADONA	ND	7.00	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.80	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.78	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	4.63	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	23.2	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	23.2	"		ND					30	
N-MeFOSE	ND	18.5	"		ND					30	
N-MeFOSA	ND	1.85	"		ND					30	
N-EtFOSE	ND	18.5	"		ND					30	
N-EtFOSA	ND	1.85	"		ND					30	
Surrogate: M3PFBS	*22.1*		"	*21.6*		*103*	*25-150*				
Surrogate: M5PFHxA	*25.7*		"	*23.2*		*111*	*25-150*				
Surrogate: M4PFHpA	*28.0*		"	*23.2*		*121*	*25-150*				
Surrogate: M3PFHxS	*25.1*		"	*22.0*		*114*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*22.5*		"	*23.2*		*97.4*	*25-150*				
Surrogate: M6PFDA	*12.8*		"	*11.6*		*110*	*25-150*				
Surrogate: M7PFUdA	*13.0*		"	*11.6*		*112*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31179 - EPA 1633 Prep											
Duplicate (BK31179-DUP1)	*Source sample: 23K0665-09 (Field Blank)							Prepared: 11/17/2023 Analyzed: 11/18/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*11.7*		*ng/L*	*11.6*		*101*	*25-150*				
Surrogate: M2PFTeDA	*6.50*		*"*	*11.6*		*56.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.49*		*"*	*92.6*		*2.69*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*23.2*		*"*	*22.2*		*104*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*27.6*		*"*	*46.3*		*59.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*17.9*		*"*	*23.2*		*77.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*28.1*		*"*	*46.3*		*60.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*31.3*		*"*	*46.3*		*67.7*	*25-150*				
Surrogate: M2-6:2 FTS	*26.5*		*"*	*44.0*		*60.1*	*25-200*				
Surrogate: M2-8:2 FTS	*26.1*		*"*	*44.5*		*58.7*	*25-200*				
Surrogate: M9PFNA	*11.8*		*"*	*11.6*		*102*	*25-150*				
Surrogate: M2-4:2 FTS	*25.1*		*"*	*43.4*		*57.7*	*25-150*				
Surrogate: d-N-MeFOSA	*10.9*		*"*	*23.2*		*47.3*	*25-150*				
Surrogate: d-N-EtFOSA	*6.43*		*"*	*23.2*		*27.8*	*25-150*				
Surrogate: M3HFPO-DA	*115*		*"*	*92.6*		*124*	*25-150*				
Surrogate: d9-N-EtFOSE	*53.7*		*"*	*232*		*23.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*90.5*		*"*	*232*		*39.1*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31064 - EPA 3550C											
Blank (BK31064-BLK1)										Prepared & Analyzed: 11/16/2023	
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*58.5*		*"*	*66.4*		*88.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*46.5*		*"*	*66.4*		*69.9*	*30-150*				
LCS (BK31064-BS1)										Prepared & Analyzed: 11/16/2023	
4,4'-DDD	31.0	1.64	ug/kg wet	33.2		93.2	40-140				
4,4'-DDE	29.4	1.64	"	33.2		88.5	40-140				
4,4'-DDT	32.0	1.64	"	33.2		96.3	40-140				
Aldrin	28.3	1.64	"	33.2		85.3	40-140				
alpha-BHC	27.5	1.64	"	33.2		82.9	40-140				
alpha-Chlordane	30.3	1.64	"	33.2		91.2	40-140				
beta-BHC	31.8	1.64	"	33.2		95.7	40-140				
delta-BHC	25.9	1.64	"	33.2		78.0	40-140				
Dieldrin	28.9	1.64	"	33.2		86.9	40-140				
Endosulfan I	29.8	1.64	"	33.2		89.8	40-140				
Endosulfan II	29.8	1.64	"	33.2		89.6	40-140				
Endosulfan sulfate	26.1	1.64	"	33.2		78.6	40-140				
Endrin	30.0	1.64	"	33.2		90.4	40-140				
Endrin aldehyde	28.5	1.64	"	33.2		85.8	40-140				
Endrin ketone	30.6	1.64	"	33.2		92.1	40-140				
gamma-BHC (Lindane)	28.1	1.64	"	33.2		84.6	40-140				
gamma-Chlordane	30.7	1.64	"	33.2		92.5	40-140				
Heptachlor	30.4	1.64	"	33.2		91.4	40-140				
Heptachlor epoxide	30.1	1.64	"	33.2		90.5	40-140				
Methoxychlor	39.9	8.22	"	33.2		120	40-140				
Surrogate: Decachlorobiphenyl	*61.3*		*"*	*66.4*		*92.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*49.6*		*"*	*66.4*		*74.6*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31064 - EPA 3550C											
Matrix Spike (BK31064-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
4,4'-DDD	37.5	1.99	ug/kg dry	40.2	ND	93.1	30-150				
4,4'-DDE	34.5	1.99	"	40.2	ND	85.8	30-150				
4,4'-DDT	38.9	1.99	"	40.2	ND	96.7	30-150				
Aldrin	33.8	1.99	"	40.2	ND	83.9	30-150				
alpha-BHC	33.1	1.99	"	40.2	ND	82.1	30-150				
alpha-Chlordane	35.9	1.99	"	40.2	ND	89.3	30-150				
beta-BHC	37.8	1.99	"	40.2	ND	94.0	30-150				
delta-BHC	31.4	1.99	"	40.2	ND	78.1	30-150				
Dieldrin	34.6	1.99	"	40.2	ND	85.9	30-150				
Endosulfan I	35.6	1.99	"	40.2	ND	88.5	30-150				
Endosulfan II	36.1	1.99	"	40.2	ND	89.7	30-150				
Endosulfan sulfate	31.6	1.99	"	40.2	ND	78.5	30-150				
Endrin	36.2	1.99	"	40.2	ND	89.9	30-150				
Endrin aldehyde	33.8	1.99	"	40.2	ND	84.1	30-150				
Endrin ketone	37.8	1.99	"	40.2	ND	93.9	30-150				
gamma-BHC (Lindane)	33.7	1.99	"	40.2	ND	83.7	30-150				
gamma-Chlordane	36.3	1.99	"	40.2	ND	90.3	30-150				
Heptachlor	36.5	1.99	"	40.2	ND	90.6	30-150				
Heptachlor epoxide	35.8	1.99	"	40.2	ND	89.0	30-150				
Methoxychlor	45.0	9.96	"	40.2	ND	112	30-150				
Surrogate: Decachlorobiphenyl	*71.6*		*"*	*80.5*		*89.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*57.6*		*"*	*80.5*		*71.6*	*30-150*				
Matrix Spike Dup (BK31064-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/16/2023			
4,4'-DDD	39.7	1.99	ug/kg dry	40.2	ND	98.7	30-150		5.84	30	
4,4'-DDE	36.0	1.99	"	40.2	ND	89.5	30-150		4.23	30	
4,4'-DDT	41.1	1.99	"	40.2	ND	102	30-150		5.48	30	
Aldrin	35.8	1.99	"	40.2	ND	89.0	30-150		5.95	30	
alpha-BHC	35.2	1.99	"	40.2	ND	87.5	30-150		6.33	30	
alpha-Chlordane	37.9	1.99	"	40.2	ND	94.2	30-150		5.39	30	
beta-BHC	39.8	1.99	"	40.2	ND	98.9	30-150		5.08	30	
delta-BHC	33.3	1.99	"	40.2	ND	82.9	30-150		5.93	30	
Dieldrin	36.5	1.99	"	40.2	ND	90.7	30-150		5.43	30	
Endosulfan I	37.6	1.99	"	40.2	ND	93.5	30-150		5.46	30	
Endosulfan II	38.0	1.99	"	40.2	ND	94.5	30-150		5.18	30	
Endosulfan sulfate	34.2	1.99	"	40.2	ND	84.9	30-150		7.86	30	
Endrin	38.2	1.99	"	40.2	ND	94.8	30-150		5.37	30	
Endrin aldehyde	36.2	1.99	"	40.2	ND	90.0	30-150		6.77	30	
Endrin ketone	39.9	1.99	"	40.2	ND	99.2	30-150		5.50	30	
gamma-BHC (Lindane)	35.9	1.99	"	40.2	ND	89.2	30-150		6.34	30	
gamma-Chlordane	38.1	1.99	"	40.2	ND	94.6	30-150		4.73	30	
Heptachlor	38.7	1.99	"	40.2	ND	96.2	30-150		6.03	30	
Heptachlor epoxide	38.0	1.99	"	40.2	ND	94.3	30-150		5.80	30	
Methoxychlor	48.9	9.96	"	40.2	ND	122	30-150		8.30	30	
Surrogate: Decachlorobiphenyl	*76.4*		*"*	*80.5*		*95.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*61.6*		*"*	*80.5*		*76.6*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S3J0433 - BI31962											
Performance Mix (S3J0433-PEM1)							Prepared & Analyzed: 10/03/2023				
4,4'-DDD	8.86		ng/mL	0.00			0-200				
4,4'-DDE	0.573		"	0.00			0-200				
4,4'-DDT	207		"	200		104	0-200				
Endrin	118		"	100		118	0-200				
Endrin aldehyde	1.57		"	0.00			0-200				
Endrin ketone	2.34		"	0.00			0-200				
Batch S3J1829 - BJ30779											
Performance Mix (S3J1829-PEM1)							Prepared & Analyzed: 10/17/2023				
4,4'-DDD	1.25		ng/mL	0.00			0-200				
4,4'-DDE	0.491		"	0.00			0-200				
4,4'-DDT	203		"	200		102	0-200				
Endrin	116		"	100		116	0-200				
Endrin aldehyde	2.01		"	0.00			0-200				
Endrin ketone	2.27		"	0.00			0-200				
Batch S3K1647 - BK31042											
Performance Mix (S3K1647-PEM1)							Prepared & Analyzed: 11/16/2023				
4,4'-DDD	1.42		ng/mL	0.00			0-200				
4,4'-DDE	0.456		"	0.00			0-200				
4,4'-DDT	189		"	200		94.6	0-200				
Endrin	106		"	100		106	0-200				
Endrin aldehyde	3.87		"	0.00			0-200				
Endrin ketone	2.35		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S3K1647 - BK31042											
Performance Mix (S3K1647-PEM2)								Prepared & Analyzed: 11/16/2023			
4,4'-DDD	2.30		ng/mL	0.00			0-200				
4,4'-DDE	0.935		"	0.00			0-200				
4,4'-DDT	185		"	200		92.3	0-200				
Endrin	105		"	100		105	0-200				
Endrin aldehyde	4.08		"	0.00			0-200				
Endrin ketone	2.36		"	0.00			0-200				
Performance Mix (S3K1647-PEM3)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
4,4'-DDD	2.68		ng/mL	0.00			0-200				
4,4'-DDE	1.18		"	0.00			0-200				
4,4'-DDT	191		"	200		95.5	0-200				
Endrin	107		"	100		107	0-200				
Endrin aldehyde	4.61		"	0.00			0-200				
Endrin ketone	2.97		"	0.00			0-200				
Batch S3K1651 - BK31062											
Performance Mix (S3K1651-PEM1)								Prepared & Analyzed: 11/16/2023			
4,4'-DDD	3.98		ng/mL	0.00			0-200				
4,4'-DDE	0.503		"	0.00			0-200				
4,4'-DDT	189		"	200		94.7	0-200				
Endrin	100		"	100		100	0-200				
Endrin aldehyde	1.26		"	0.00			0-200				
Endrin ketone	2.44		"	0.00			0-200				
Performance Mix (S3K1651-PEM2)								Prepared & Analyzed: 11/16/2023			
4,4'-DDD	3.87		ng/mL	0.00			0-200				
4,4'-DDE	0.452		"	0.00			0-200				
4,4'-DDT	206		"	200		103	0-200				
Endrin	102		"	100		102	0-200				
Endrin aldehyde	0.974		"	0.00			0-200				
Endrin ketone	2.04		"	0.00			0-200				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S3K1651 - BK31062											
Performance Mix (S3K1651-PEM3)											
Prepared: 11/16/2023 Analyzed: 11/17/2023											
4,4'-DDD	17.3		ng/mL	0.00			0-200				
4,4'-DDE	0.264		"	0.00			0-200				
4,4'-DDT	171		"	200		85.3	0-200				
Endrin	100		"	100		100	0-200				
Endrin aldehyde	0.637		"	0.00			0-200				
Endrin ketone	2.77		"	0.00			0-200				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31064 - EPA 3550C											
Blank (BK31064-BLK2)									Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0432*		*"*	*0.0664*		*65.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0538*		*"*	*0.0664*		*81.0*	*30-140*				
LCS (BK31064-BS2)									Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	0.238	0.0166	mg/kg wet	0.332		71.7	40-130				
Aroclor 1260	0.276	0.0166	"	0.332		83.1	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0435*		*"*	*0.0664*		*65.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0545*		*"*	*0.0664*		*82.0*	*30-140*				
Matrix Spike (BK31064-MS2)	*Source sample: 23K0702-01 (Matrix Spike)								Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	0.305	0.0201	mg/kg dry	0.402	ND	75.8	40-140				
Aroclor 1260	0.351	0.0201	"	0.402	ND	87.2	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0535*		*"*	*0.0805*		*66.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0668*		*"*	*0.0805*		*83.0*	*30-140*				
Matrix Spike Dup (BK31064-MSD2)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	0.276	0.0201	mg/kg dry	0.402	ND	68.5	40-140		10.0	50	
Aroclor 1260	0.318	0.0201	"	0.402	ND	78.9	40-140		9.97	50	
Surrogate: Tetrachloro-m-xylene	*0.0499*		*"*	*0.0805*		*62.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0620*		*"*	*0.0805*		*77.0*	*30-140*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch S3K1746 - BK30922											
Aroclor Reference (S3K1746-ARC1)									Prepared & Analyzed: 11/16/2023		
Surrogate: Tetrachloro-m-xylene	*0.163*		*ug/mL*	*0.200*		*81.5*					
Surrogate: Decachlorobiphenyl	*0.190*		*"*	*0.200*		*95.0*					

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA41914 - EPA 3015A/1311											
Blank (BA41914-BLK1)								Prepared & Analyzed: 01/30/2024			
Lead	ND	0.00556	mg/L								
LCS (BA41914-BS1)								Prepared & Analyzed: 01/30/2024			
Lead	0.503		ug/mL	0.500		101	80-120				
Duplicate (BA41914-DUP1)	*Source sample: 24A1336-01 (Duplicate)							Prepared & Analyzed: 01/30/2024			
Lead	ND	0.125	mg/L		ND					20	
Leach Fluid Blank (BA41914-LBK1)								Prepared & Analyzed: 01/30/2024			
Lead	ND	0.125	mg/L								
Matrix Spike (BA41914-MS1)	*Source sample: 24A1336-01 (Matrix Spike)							Prepared & Analyzed: 01/30/2024			
Lead	12.3	0.125	mg/L	12.5	ND	98.1	75-125				
Post Spike (BA41914-PS1)	*Source sample: 24A1336-01 (Post Spike)							Prepared & Analyzed: 01/30/2024			
Lead	0.518		ug/mL	0.500	0.00395	103	75-125				
Batch BK30664 - EPA 3050B											
Blank (BK30664-BLK1)								Prepared: 11/09/2023 Analyzed: 11/15/2023			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	45.2	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30664 - EPA 3050B											
Duplicate (BK30664-DUP1)	*Source sample: 23K0655-10 (Duplicate)								Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	10500	4.89	mg/kg dry		10300				2.48	35	
Antimony	ND	2.44	"		ND					35	
Arsenic	5.54	1.47	"		4.98				10.8	35	
Barium	46.5	2.44	"		44.6				4.10	35	
Beryllium	0.369	0.049	"		0.379				2.77	35	
Cadmium	ND	0.293	"		ND					35	
Calcium	973	4.89	"		966				0.773	35	
Chromium	13.5	0.489	"		12.7				5.82	35	
Cobalt	7.84	0.391	"		6.74				15.0	35	
Copper	21.1	1.96	"		21.1				0.0145	35	
Iron	18500	24.4	"		18200				1.87	35	
Lead	10.8	0.489	"		11.6				7.45	35	
Magnesium	3230	4.89	"		3140				2.88	35	
Manganese	203	0.489	"		146				32.4	35	
Nickel	22.8	0.974	"		21.1				7.45	35	
Potassium	1040	4.89	"		1030				1.27	35	
Selenium	6.37	2.44	"		5.94				7.12	35	
Silver	ND	0.493	"		ND					35	
Sodium	148	48.9	"		120				20.8	35	
Thallium	ND	2.44	"		ND					35	
Vanadium	14.4	0.974	"		15.2				5.26	35	
Zinc	33.0	2.44	"		31.3				5.27	35	
Matrix Spike (BK30664-MS1)	*Source sample: 23K0655-10 (Matrix Spike)								Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	11200	4.89	mg/kg dry	196	10300	475	75-125	High Bias			
Antimony	5.15	2.44	"	24.4	ND	21.1	75-125	Low Bias			
Arsenic	196	1.47	"	196	4.98	97.7	75-125				
Barium	243	2.44	"	196	44.6	102	75-125				
Beryllium	5.17	0.049	"	4.89	0.379	97.9	75-125				
Cadmium	4.20	0.293	"	4.89	ND	85.8	75-125				
Calcium	1050	4.89	"	97.8	966	90.3	75-125				
Chromium	33.4	0.489	"	19.6	12.7	105	75-125				
Cobalt	55.7	0.391	"	48.9	6.74	100	75-125				
Copper	48.0	1.96	"	24.4	21.1	110	75-125				
Iron	19800	24.4	"	97.8	18200	NR	75-125	High Bias			
Lead	57.0	0.489	"	48.9	11.6	92.9	75-125				
Magnesium	3430	4.89	"	97.8	3140	299	75-125	High Bias			
Manganese	259	0.489	"	48.9	146	230	75-125	High Bias			
Nickel	71.7	0.974	"	48.9	21.1	103	75-125				
Potassium	1040	4.89	"	97.8	1030	13.8	75-125	Low Bias			
Selenium	196	2.44	"	196	5.94	97.1	75-125				
Silver	3.95	0.493	"	4.89	ND	80.7	75-125				
Sodium	482	48.9	"	97.8	120	370	75-125	High Bias			
Thallium	174	2.44	"	196	ND	88.9	75-125				
Vanadium	61.3	0.974	"	48.9	15.2	94.3	75-125				
Zinc	82.4	2.44	"	48.9	31.3	105	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30664 - EPA 3050B											
Post Spike (BK30664-PS1)	*Source sample: 23K0655-10 (Post Spike)								Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	105		ug/mL	2.00	105	NR	75-125	Low Bias			
Antimony	0.195		"	0.250	-0.002	78.0	75-125				
Arsenic	1.89		"	2.00	0.051	91.9	75-125				
Barium	2.35		"	2.00	0.456	94.5	75-125				
Beryllium	0.050		"	0.0500	0.004	92.9	75-125				
Cadmium	0.041		"	0.0500	-0.004	81.2	75-125				
Calcium	10.6		"	1.00	9.88	76.7	75-125				
Chromium	0.313		"	0.200	0.130	91.4	75-125				
Cobalt	0.535		"	0.500	0.069	93.1	75-125				
Copper	0.468		"	0.250	0.216	101	75-125				
Iron	184		"	1.00	186	NR	75-125	Low Bias			
Lead	0.562		"	0.500	0.119	88.6	75-125				
Magnesium	32.8		"	1.00	32.1	66.5	75-125	Low Bias			
Manganese	1.96		"	0.500	1.50	91.8	75-125				
Nickel	0.685		"	0.500	0.216	93.8	75-125				
Potassium	11.1		"	1.00	10.5	64.2	75-125	Low Bias			
Selenium	1.89		"	2.00	0.061	91.3	75-125				
Silver	0.043		"	0.0500	-0.007	85.5	75-125				
Sodium	3.80		"	1.00	1.23	257	75-125	High Bias			
Thallium	1.69		"	2.00	0.0008	84.5	75-125				
Vanadium	0.613		"	0.500	0.155	91.6	75-125				
Zinc	0.769		"	0.500	0.320	89.8	75-125				
Reference (BK30664-SRM1)									Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	7840	4.17	mg/kg wet	9490		82.6	45.4-128.6				
Antimony	48.2	2.08	"	248		19.4	3-103.2				
Arsenic	130	1.25	"	163		79.9	68.7-100.6				
Barium	301	2.08	"	319		94.3	82.5-115.7				
Beryllium	97.5	0.042	"	119		81.9	77.7-109.2				
Cadmium	109	0.250	"	130		83.9	75.2-106.2				
Calcium	4510	4.17	"	5000		90.1	80.6-114.4				
Chromium	138	0.417	"	153		90.0	77.8-111.8				
Cobalt	137	0.333	"	153		89.7	79.1-109.8				
Copper	235	1.67	"	245		95.8	80.4-111				
Iron	7170	20.8	"	7540		95.1	69.8-144.6				
Lead	192	0.417	"	220		87.2	80-113.6				
Magnesium	1960	4.17	"	1980		99.1	85.9-129.3				
Manganese	401	0.417	"	431		93.1	79.6-114.2				
Nickel	156	0.830	"	175		89.0	76.6-108.6				
Potassium	1600	4.17	"	1570		102	80.9-131.2				
Selenium	150	2.08	"	156		96.4	80.8-118.6				
Silver	52.0	0.420	"	82.9		62.7	76.7-114.7	Low Bias			
Sodium	980	41.7	"	453		216	72.2-119.7	High Bias			
Thallium	80.7	2.08	"	99.4		81.2	75.8-110.7				
Vanadium	146	0.830	"	170		86.0	75.3-114.1				
Zinc	342	2.08	"	201		170	79.6-115.92	High Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30823 - EPA 3050B											
Blank (BK30823-BLK1)											Prepared: 11/13/2023 Analyzed: 11/17/2023
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	10.8	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BK30823-DUP1)	*Source sample: 23K0702-01 (Duplicate)										Prepared: 11/13/2023 Analyzed: 11/16/2023
Aluminum	7070	5.05	mg/kg dry		9250				26.6	35	
Antimony	ND	2.52	"		ND					35	
Arsenic	4.93	1.51	"		7.15				36.8	35	Non-dir.
Barium	75.1	2.52	"		96.3				24.8	35	
Beryllium	ND	0.051	"		ND					35	
Cadmium	ND	0.303	"		ND					35	
Calcium	11700	5.05	"		16300				33.0	35	
Chromium	15.6	0.505	"		18.2				14.9	35	
Cobalt	4.77	0.403	"		5.95				21.9	35	
Copper	19.0	2.02	"		24.4				24.5	35	
Iron	12200	25.2	"		15000				20.6	35	
Lead	84.4	0.505	"		88.7				4.97	35	
Magnesium	3890	5.05	"		5020				25.5	35	
Manganese	269	0.505	"		364				30.1	35	
Nickel	10.4	1.01	"		14.9				35.8	35	Non-dir.
Potassium	1080	5.05	"		1350				22.2	35	
Selenium	ND	2.52	"		2.59					35	
Silver	ND	0.509	"		ND					35	
Sodium	668	50.5	"		926				32.4	35	
Thallium	ND	2.52	"		ND					35	
Vanadium	23.8	1.01	"		28.2				17.0	35	
Zinc	36.1	2.51	"		41.6				14.0	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30823 - EPA 3050B											
Matrix Spike (BK30823-MS1)	*Source sample: 23K0702-01 (Matrix Spike)								Prepared: 11/13/2023 Analyzed: 11/16/2023		
Aluminum	8250	5.05	mg/kg dry	202	9250	NR	75-125	Low Bias			
Antimony	7.32	2.52	"	25.2	ND	29.0	75-125	Low Bias			
Arsenic	209	1.51	"	202	7.15	99.8	75-125				
Barium	307	2.52	"	202	96.3	104	75-125				
Beryllium	4.79	0.051	"	5.05	ND	94.9	75-125				
Cadmium	5.12	0.303	"	5.05	ND	101	75-125				
Calcium	15100	5.05	"	101	16300	NR	75-125	Low Bias			
Chromium	35.0	0.505	"	20.2	18.2	83.4	75-125				
Cobalt	54.3	0.403	"	50.5	5.95	95.7	75-125				
Copper	51.7	2.02	"	25.2	24.4	108	75-125				
Iron	12400	25.2	"	101	15000	NR	75-125	Low Bias			
Lead	151	0.505	"	50.5	88.7	124	75-125				
Magnesium	4370	5.05	"	101	5020	NR	75-125	Low Bias			
Manganese	371	0.505	"	50.5	364	15.0	75-125	Low Bias			
Nickel	61.6	1.01	"	50.5	14.9	92.5	75-125				
Potassium	1320	5.05	"	101	1350	NR	75-125	Low Bias			
Selenium	200	2.52	"	202	2.59	97.7	75-125				
Silver	1.54	0.509	"	5.05	ND	30.5	75-125	Low Bias			
Sodium	1280	50.5	"	101	926	350	75-125	High Bias			
Thallium	177	2.52	"	202	ND	87.5	75-125				
Vanadium	74.0	1.01	"	50.5	28.2	90.6	75-125				
Zinc	82.6	2.51	"	50.5	41.6	81.3	75-125				
Post Spike (BK30823-PS1)	*Source sample: 23K0702-01 (Post Spike)								Prepared: 11/13/2023 Analyzed: 11/16/2023		
Aluminum	94.7		ug/mL	2.00	91.6	154	75-125	High Bias			
Antimony	0.212		"	0.250	0.005	82.9	75-125				
Arsenic	1.99		"	2.00	0.071	95.8	75-125				
Barium	2.92		"	2.00	0.954	98.5	75-125				
Beryllium	0.045		"	0.0500	-0.003	89.8	75-125				
Cadmium	0.049		"	0.0500	0.003	91.9	75-125				
Calcium	159		"	1.00	161	NR	75-125	Low Bias			
Chromium	0.372		"	0.200	0.180	96.1	75-125				
Cobalt	0.538		"	0.500	0.059	95.9	75-125				
Copper	0.506		"	0.250	0.241	106	75-125				
Iron	148		"	1.00	149	NR	75-125	Low Bias			
Lead	1.32		"	0.500	0.879	88.8	75-125				
Magnesium	50.4		"	1.00	49.8	67.8	75-125	Low Bias			
Manganese	4.05		"	0.500	3.60	90.0	75-125				
Nickel	0.626		"	0.500	0.147	95.7	75-125				
Potassium	15.1		"	1.00	13.3	179	75-125	High Bias			
Selenium	1.92		"	2.00	0.026	94.9	75-125				
Silver	0.013		"	0.0500	-0.039	26.4	75-125	Low Bias			
Sodium	11.9		"	1.00	9.17	277	75-125	High Bias			
Thallium	1.68		"	2.00	-0.005	84.2	75-125				
Vanadium	0.760		"	0.500	0.280	96.1	75-125				
Zinc	0.878		"	0.500	0.412	93.3	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30823 - EPA 3050B											
Reference (BK30823-SRM1)								Prepared: 11/13/2023 Analyzed: 11/16/2023			
Aluminum	7540	4.17	mg/kg wet	9490		79.4	45.4-128.6				
Antimony	51.3	2.08	"	248		20.7	3-103.2				
Arsenic	122	1.25	"	163		75.0	68.7-100.6				
Barium	285	2.08	"	319		89.3	82.5-115.7				
Beryllium	95.2	0.042	"	119		80.0	77.7-109.2				
Cadmium	103	0.250	"	130		79.2	75.2-106.2				
Calcium	4260	4.17	"	5000		85.2	80.6-114.4				
Chromium	130	0.417	"	153		84.6	77.8-111.8				
Cobalt	131	0.333	"	153		85.5	79.1-109.8				
Copper	223	1.67	"	245		90.9	80.4-111				
Iron	6760	20.8	"	7540		89.6	69.8-144.6				
Lead	184	0.417	"	220		83.4	80-113.6				
Magnesium	1850	4.17	"	1980		93.5	85.9-129.3				
Manganese	365	0.417	"	431		84.6	79.6-114.2				
Nickel	149	0.830	"	175		84.9	76.6-108.6				
Potassium	1440	4.17	"	1570		91.8	80.9-131.2				
Selenium	139	2.08	"	156		89.4	80.8-118.6				
Silver	43.7	0.420	"	82.9		52.7	76.7-114.7	Low Bias			
Sodium	949	41.7	"	453		209	72.2-119.7	High Bias			
Thallium	75.3	2.08	"	99.4		75.7	75.8-110.7	Low Bias			
Vanadium	137	0.830	"	170		80.5	75.3-114.1				
Zinc	318	2.08	"	201		158	79.6-115.92	High Bias			
Batch BL31609 - EPA 3015A/1311											
Blank (BL31609-BLK1)								Prepared & Analyzed: 12/22/2023			
Arsenic	ND	0.017	mg/L								
Barium	ND	0.028	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Lead	ND	0.006	"								
Selenium	ND	0.028	"								
Silver	ND	0.006	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31609 - EPA 3015A/1311											
LCS (BL31609-BS1)									Prepared & Analyzed: 12/22/2023		
Arsenic	2.13		ug/mL	2.00		106	80-120				
Barium	2.21		"	2.00		111	80-120				
Cadmium	0.054		"	0.0500		108	80-120				
Chromium	0.214		"	0.200		107	80-120				
Lead	0.553		"	0.500		111	80-120				
Selenium	2.04		"	2.00		102	80-120				
Silver	0.049		"	0.0500		98.7	80-120				
Duplicate (BL31609-DUP1)	*Source sample: 23L1129-11 (Duplicate)								Prepared & Analyzed: 12/22/2023		
Arsenic	ND	0.375	mg/L		ND					20	
Barium	ND	0.625	"		ND					20	
Cadmium	ND	0.075	"		ND					20	
Chromium	ND	0.125	"		ND					20	
Lead	ND	0.125	"		ND					20	
Selenium	ND	0.625	"		ND					20	
Silver	ND	0.125	"		ND					20	
Leach Fluid Blank (BL31609-LBK1)									Prepared & Analyzed: 12/22/2023		
Arsenic	ND	0.375	mg/L								
Barium	ND	0.625	"								
Cadmium	ND	0.075	"								
Chromium	ND	0.125	"								
Lead	ND	0.125	"								
Selenium	ND	0.625	"								
Silver	ND	0.125	"								
Matrix Spike (BL31609-MS1)	*Source sample: 23L1129-11 (Matrix Spike)								Prepared & Analyzed: 12/22/2023		
Arsenic	55.7	0.375	mg/L	50.0	ND	111	75-125				
Barium	57.0	0.625	"	50.0	ND	114	75-125				
Cadmium	1.38	0.075	"	1.25	ND	110	75-125				
Chromium	5.53	0.125	"	5.00	ND	111	75-125				
Lead	14.1	0.125	"	12.5	ND	113	75-125				
Selenium	54.8	0.625	"	50.0	ND	110	75-125				
Silver	1.28	0.125	"	1.25	ND	102	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31609 - EPA 3015A/1311											
Post Spike (BL31609-PS1)	*Source sample: 23L1129-11 (Post Spike)						Prepared & Analyzed: 12/22/2023				
Arsenic	2.18		ug/mL	2.00	-0.005	109	75-125				
Barium	2.25		"	2.00	0.010	112	75-125				
Cadmium	0.054		"	0.0500	-0.0003	108	75-125				
Chromium	0.219		"	0.200	0.002	109	75-125				
Lead	0.552		"	0.500	0.003	110	75-125				
Selenium	2.16		"	2.00	-0.002	108	75-125				
Silver	0.047		"	0.0500	-0.00007	93.4	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31084 - EPA 7473 soil											
Blank (BK31084-BLK1)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31084-DUP1)	*Source sample: 23K0655-23 (Duplicate)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	0.138	0.0368	mg/kg dry		0.168				19.0	35	
Matrix Spike (BK31084-MS1)	*Source sample: 23K0655-23 (Matrix Spike)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	0.601		mg/kg	0.500	0.136	92.8	75-125				
Reference (BK31084-SRM1)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	21.971		mg/kg	18.2		121	59.9-140.1				
Batch BL31603 - EPA SW846-7470A											
Blank (BL31603-BLK1)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.000200	mg/L								
Blank (BL31603-BLK2)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.000200	mg/L								
LCS (BL31603-BS1)								Prepared & Analyzed: 12/22/2023			
Mercury	0.00193	0.000200	mg/L	0.00200		96.3	80-120				
LCS (BL31603-BS2)								Prepared & Analyzed: 12/22/2023			
Mercury	0.00218	0.000200	mg/L	0.00200		109	80-120				
Leach Fluid Blank (BL31603-LBK1)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.000200	mg/L								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30904 - Analysis Preparation Soil											
Blank (BK30904-BLK1)								Prepared & Analyzed: 11/14/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK30904-DUP1)	*Source sample: 23K0655-10 (Duplicate)							Prepared & Analyzed: 11/14/2023			
Cyanide, total	ND	0.587	mg/kg dry		ND					15	
Matrix Spike (BK30904-MS1)	*Source sample: 23K0655-10 (Matrix Spike)							Prepared & Analyzed: 11/14/2023			
Cyanide, total	8.74	0.587	mg/kg dry	11.7	ND	74.5	79.6-107	Low Bias			
Matrix Spike Dup (BK30904-MSD1)	*Source sample: 23K0655-10 (Matrix Spike Dup)							Prepared & Analyzed: 11/14/2023			
Cyanide, total	9.51	0.587	mg/kg dry	11.7	ND	81.0	79.6-107		8.36	200	
Reference (BK30904-SRM1)								Prepared & Analyzed: 11/14/2023			
Cyanide, total	120		ug/mL	131		91.9	44.4-156.5				
Batch BK30998 - EPA SW846-3060											
Blank (BK30998-BLK1)								Prepared & Analyzed: 11/15/2023			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK30998-DUP1)	*Source sample: 23K0655-23 (Duplicate)							Prepared & Analyzed: 11/15/2023			
Chromium, Hexavalent	ND	0.614	mg/kg dry		ND					35	
Matrix Spike (BK30998-MS1)	*Source sample: 23K0655-23 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
Chromium, Hexavalent	ND	0.614	mg/kg dry	24.6	ND		75-125	Low Bias			
Matrix Spike Dup (BK30998-MSD1)	*Source sample: 23K0655-23 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
Chromium, Hexavalent	ND	0.614	mg/kg dry	24.6	ND		75-125	Low Bias		200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30998 - EPA SW846-3060											
Reference (BK30998-SRM1)								Prepared & Analyzed: 11/15/2023			
Chromium, Hexavalent	264		mg/L	227		116	42.3-157.7				
Batch BK31003 - Analysis Preparation Soil											
Blank (BK31003-BLK1)								Prepared & Analyzed: 11/15/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK31003-DUP1)	*Source sample: 23K0702-01 (Duplicate)							Prepared & Analyzed: 11/15/2023			
Cyanide, total	ND	0.606	mg/kg dry		ND					15	
Matrix Spike (BK31003-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
Cyanide, total	6.91	0.606	mg/kg dry	12.1	ND	57.0	79.6-107	Low Bias			
Matrix Spike Dup (BK31003-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
Cyanide, total	10.4	0.606	mg/kg dry	12.1	ND	86.0	79.6-107		40.6	200	
Reference (BK31003-SRM1)								Prepared & Analyzed: 11/15/2023			
Cyanide, total	166		ug/mL	131		127	44.4-156.5				
Batch BL31191 - Analysis Preparation											
Duplicate (BL31191-DUP1)	*Source sample: 23L1095-03 (Duplicate)							Prepared & Analyzed: 12/18/2023			
pH	8.92	0.500	pH units		8.91				0.112	10	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30902 - % Solids Prep											
Duplicate (BK30902-DUP1)	*Source sample: 23K0655-23 (Duplicate)							Prepared & Analyzed: 11/14/2023			
% Solids	80.4	0.100	%		81.5				1.26	20	
Batch BK30903 - % Solids Prep											
Duplicate (BK30903-DUP1)	*Source sample: 23K0660-06 (Duplicate)							Prepared & Analyzed: 11/14/2023			
% Solids	83.3	0.100	%		81.4				2.35	20	

Leachate Preparations - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA41478 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BA41478-BLK1)									Prepared: 01/23/2024 Analyzed: 01/24/2024		
TCLP Extraction	Completed	1.00	N/A								
Batch BL31522 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BL31522-BLK1)									Prepared: 12/21/2023 Analyzed: 12/22/2023		
TCLP Extraction	Completed	1.00	N/A								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K0665-01	23SP3 (0-2.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-02	23SP3 (8-12 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-03	23SP3 (12-14 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-04	23SP3 (25-30 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-05	23SP4 (0-5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-06	23SP4 (12-14 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-07	23SP4 (14-16 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-08	23SP4 (27.5-30 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-10	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCVH	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
EXT-COMP	Completed
EXT-Temp	Extraction temperture slightly exceeded acceptance range.
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
IS-HI	The internal std associated with this target compound did not meet acceptance criteria (area >200% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
S-Alk	The surrogate recoveries for the acid surrogates in the sample recovered below control limits due to a highly alkaline matrix present in the sample. This is common when concrete or mixtures containing concrete or limestone are encountered.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
N	The Tentatively Identified Compound reported indicates the presence of an possible analyte or class of analyte that has been 'tentatively identified' and the associated numerical value represents its estimated concentration.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-08	The recovery of this surrogate was outside of QC limits.
ICVE20	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 20% of expected value).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.

LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: For sample 01, client only provided one stirbar vial. Limited volume for sample 01 volatile analyses.

Revision Description: This report has been revised to include additional TCLP Pb results.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0665

120 Research Drive Stratford, CT 06615 ~~132-02 89th Ave Queens, NY 11418~~ ~~56 Church Hill Rd. #2 Newtown, CT 06470~~ clientservices@yorklab.com www.yorklab.com 800-306-YORK Page _____ of _____

YOUR Information	Report To:	Invoice To:
Company: Tauchstone	Company: Tauchstone	Company: Tauchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 East 149th St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil | Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other:

Report / EDD Type (circle selections): Summary Report; CT RCP; EQuIS (Standard); QA Report; CT RCP DQA/DUE; NYSDEC EQuIS; CMDP; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; NJDEP SRP HazSite; NY ASP B Package; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP3 (~~0-2.5ft~~) ~~(0-2.5ft)~~	S	11/8/23 1100	TCL +10 VOCs and TICs EPA 8260C	2) 8oz Jars,	
23SP3 (8-12ft)	S	1115	TCL +20 SVOCs and TICs, Pesticides	4 vials,	
23SP3 (12-14ft)	S	1125	and PCBs, 21 PFAS compounds	1 Pfas	
23SP3 (25-30ft)	S	1140	Method 1633, 1,4 dioxane EPA		
23SP4 (~~0-2.5ft~~) (0-5ft)		1130	8270 SIM, Full TAL metals		
23SP4 (12-14ft)		145	list + Cyanide and		
23SP4 (14-16ft)		145	hexavalent chromium		
23SP4 (27.5-30ft)					
Field Blank	O			2 vials	
Trip Blank	O			2 vials	

Comments: temperatures frozen at Rg KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered; Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
[signature]	11/9/23 220 pm	K Bahyork	11/9/23 229pm	K Bahyork	11/9/23 18:15
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
[signature]					
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	11/9/23 18:15 / 2.3 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 01/31/2024
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K0980

Revision No. 2.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 01/31/2024
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K0980

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 14, 2023 and listed below. The project was identified as your project: **220293 100 E. 149th St. Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K0980-01	23SP5 (0-2.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-02	23SP5 (12.5-15 ft)	Soil	11/13/2023	11/14/2023
23K0980-03	23SP5 (15-17.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-04	23SP5 (25-27.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-05	23SP6 (0-2.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-06	23SP6 (12.5-15 ft)	Soil	11/13/2023	11/14/2023
23K0980-07	23SP6 (15-17.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-08	23SP6 (22.5-25 ft)	Soil	11/13/2023	11/14/2023
23K0980-09	Trip Blank	Water	11/13/2023	11/14/2023
23K0980-10	Field Blank	Water	11/13/2023	11/14/2023
23K0980-11	PFAS Field Blank	Water	11/13/2023	11/14/2023

General Notes for York Project (SDG) No.: 23K0980

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 01/31/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	mg/kg dry	0.064	0.13	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.0037**	J	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND	QL-02	mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0096	0.019	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.9 %*		*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.7 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*		*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,PADEP-68-04440
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,PADEP-68-04440
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	**Acenaphthylene**	**0.144**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.188	0.377	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.129**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	**Benzaldehyde**	**0.0872**	J	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.188	0.377	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.707**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
50-32-8	**Benzo(a)pyrene**	**0.924**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
205-99-2	**Benzo(b)fluoranthene**	**0.788**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
191-24-2	**Benzo(g,h,i)perylene**	**0.749**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
207-08-9	**Benzo(k)fluoranthene**	**0.610**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.675**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
53-70-3	**Dibenzo(a,h)anthracene**	**0.148**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
206-44-0	**Fluoranthene**	**0.913**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.820**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
85-01-8	**Phenanthrene**	**0.270**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
129-00-0	**Pyrene**	**1.13**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*33.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*35.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*40.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*39.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*47.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*41.3 %*	*24-116*

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/16/2023 23:24	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.127	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0765**	J	ug/kg dry	0.0608	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.120	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.205	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.197	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.911**		ug/kg dry	0.192	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.217	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.219	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.227	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.187	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.143	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.118	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.170	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.223	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.125	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.167	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.178	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.219	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.682	0.872	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.866	0.881	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.125	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.159	0.408	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.221	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0711	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.110	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.180	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.682	0.860	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.697	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.357	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.282	0.858	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.200	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.194	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.142	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.727	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.41	5.74	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.72	5.74	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.701	2.29	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.206	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.799	2.29	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.227	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
	Surrogate: M3PFBS	*107 %*		*25-150*							
	Surrogate: M5PFHxA	*122 %*		*25-150*							
	Surrogate: M4PFHpA	*131 %*		*25-150*							
	Surrogate: M3PFHxS	*133 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*105 %*		*25-150*							
	Surrogate: M6PFDA	*117 %*		*25-150*							
	Surrogate: M7PFUdA	*110 %*		*25-150*							
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*92.9 %*		*25-150*							
	Surrogate: M2PFTeDA	*85.2 %*		*10-150*							
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*119 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*110 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*124 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*81.2 %*		*10-150*							
	Surrogate: d3-N-MeFOSAA	*84.8 %*		*25-150*							
	Surrogate: d5-N-EtFOSAA	*103 %*		*25-150*							
	Surrogate: M2-6:2 FTS	*103 %*		*25-200*							
	Surrogate: M2-8:2 FTS	*148 %*		*25-200*							
	Surrogate: M9PFNA	*110 %*		*25-150*							
	Surrogate: M2-4:2 FTS	*75.3 %*		*25-150*							
	Surrogate: d-N-MeFOSA	*40.2 %*		*25-150*							
	Surrogate: d-N-EtFOSA	*35.4 %*		*25-150*							
	Surrogate: M3HFPO-DA	*137 %*		*25-150*							
	Surrogate: d9-N-EtFOSE	*41.2 %*		*25-150*							
	Surrogate: d7-N-MeFOSE	*52.5 %*		*25-150*							

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/kg dry	37.8	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-43-5	Methoxychlor	ND		ug/kg dry	9.46	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
8001-35-2	Toxaphene	ND		ug/kg dry	95.7	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 09:28	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010D/1311 Certifications:	01/30/2024 08:46	01/30/2024 15:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7080**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.95**		mg/kg dry	1.44	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**145**		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.048	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.809**		mg/kg dry	0.288	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**18300**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**16.6**		mg/kg dry	0.481	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.42**		mg/kg dry	0.384	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**51.2**		mg/kg dry	1.92	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**14700**		mg/kg dry	24.0	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**309**	B	mg/kg dry	0.481	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**10000**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**233**		mg/kg dry	0.481	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**16.2**		mg/kg dry	0.958	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1300**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.485	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**456**		mg/kg dry	48.1	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**22.4**		mg/kg dry	0.958	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**38.8**		mg/kg dry	2.39	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.227**		mg/kg dry	0.0346	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.577	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.6**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.577	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.7**		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **23SP5 (12.5-15 ft)** **York Sample ID:** **23K0980-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**1.2**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**3.9**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	8.2	16	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP5 (12.5-15 ft)** **York Sample ID:** **23K0980-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE, IS-HI	mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**64**	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**8.2**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**13**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**100**		mg/kg dry	8.1	16	2000	EPA 8260D	11/20/2023 09:00	11/20/2023 15:58	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**22**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**43**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**3.1**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**6.9**		mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**7.0**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**6.8**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.50**	J	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**2.0**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	**Xylenes, Total**	**10**		mg/kg dry	1.2	2.5	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*51.2 %*	IS-HI, S-04, S-08	*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.3 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*138 %*	S-04, S-08	*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene butenyl isomer**	**110**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene diethyl isomer**	**28**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene ethyl dimethyl isomer**	**89**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene ethyl isomer**	**27**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene ethyl methyl isomer**	**49**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
050704-01-3	**benzene isomer**	**19**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene methyl isomer**	**19**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Heptane methyl isomer**	**22**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Indene dihydro dimethyl isomer**	**32**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Indene dihydro methyl isomer**	**57**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Phenyl butene isomer**	**61**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0674**	J	mg/kg dry	0.0485	0.0969	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,PADEP-68-04440	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,PADEP-68-04440	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,PADEP-68-04440	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**12.6**		mg/kg dry	0.243	0.484	10	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 15:51 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.296**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.194	0.388	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.234**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.194	0.388	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.559**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.501**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.434**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.293**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.379**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**0.561**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.0759**	J	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	**Dibenzofuran**	**0.0712**	J	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
206-44-0	**Fluoranthene**	**1.29**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.239**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.355**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.243	0.484	10	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 15:51	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**1.10**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**1.59**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.7 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*59.6 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*%*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*50.2 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.5 %*		*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.0 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications:	11/16/2023 08:36	11/16/2023 23:41	KH NELAC-NY10854

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*61.1 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.130	0.207	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 13:07	ER NELAC-NH2097 ,NJDEP-NY037
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0928**	J	ug/kg dry	0.0620	0.234	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 13:07	ER NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.123	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.209	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.201	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.195	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.221	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.223	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.191	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.146	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.120	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.173	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.227	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.127	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.171	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.181	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.223	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.696	0.889	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.883	0.898	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.127	0.936	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.163	0.416	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.226	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0725	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.112	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.184	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.696	0.877	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.711	0.936	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.364	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.288	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.204	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.198	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.145	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.742	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.45	5.85	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.75	5.85	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.715	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.211	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.815	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*99.6 %*	*25-150*
Surrogate: M5PFHxA	*111 %*	*25-150*
Surrogate: M4PFHpA	*118 %*	*25-150*
Surrogate: M3PFHxS	*124 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*102 %*	*25-150*
Surrogate: M6PFDA	*117 %*	*25-150*
Surrogate: M7PFUdA	*117 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*104 %*	*25-150*
Surrogate: M2PFTeDA	*80.3 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*117 %*	*25-150*

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*102 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*117 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*81.6 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*82.5 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*102 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*60.4 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*107 %*			*25-200*						
	Surrogate: M9PFNA	*102 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*31.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*48.0 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*48.4 %*			*25-150*						
	Surrogate: M3HFPO-DA	*134 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*51.3 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*66.9 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.4**	**5.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 4.8**	**1.90**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 4.9**	**3.38**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.0**	**4.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.2 (01)**	**7.73**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.2 (02)**	**4.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.5 (01)**	**1.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.5 (02)**	**3.61**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.6**	**3.75**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 6.2**	**2.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclohexane Isomer RT 4.0**	**1.76**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Cyclohexane Isomer RT 4.9**	**1.93**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Diethyl Benzene Isomer RT 5.0**	**4.91**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Dihydro Dimethyl 1H-Indene ...**	**1.94**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Methyl Propyl Benzene Isome...**	**2.27**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Tetramethyl Benzene Isomer ...**	**2.44**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.6**	**2.83**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.7**	**2.46**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 4.2**	**1.82**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 5.1**	**2.15**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 6.6**	**2.46**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 7.1**	**5.07**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown PAH RT 11.4**	**3.23**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown PAH RT 12.2**	**2.23**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	39.1	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.77	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	98.9	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*82.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*123 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*79.5 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.546**		mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 15:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7600**		mg/kg dry	4.95	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.48	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**12.7**		mg/kg dry	1.49	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**170**		mg/kg dry	2.47	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	**Beryllium**	**0.091**		mg/kg dry	0.050	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/kg dry	0.297	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**9040**		mg/kg dry	4.95	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**20.1**		mg/kg dry	0.496	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.57**		mg/kg dry	0.396	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**39.3**		mg/kg dry	1.98	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**10100**		mg/kg dry	24.8	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**350**	B	mg/kg dry	0.496	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**1660**		mg/kg dry	4.96	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**162**		mg/kg dry	0.496	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.8**		mg/kg dry	0.986	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1020**		mg/kg dry	4.96	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.89**		mg/kg dry	2.48	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.499	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**865**		mg/kg dry	49.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.48	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**27.2**		mg/kg dry	0.986	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**48.2**		mg/kg dry	2.47	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**63.6**		mg/kg dry	0.0357	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.00193**		mg/L	0.000200	1	EPA 7470/1311	01/29/2024 08:15	01/29/2024 08:15	PFA
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04440,NELAC-NY10		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.594	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**20.1**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.594	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.1**		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP5 (15-17.5 ft)** **York Sample ID:** **23K0980-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	**1,2,4-Trimethylbenzene**	**1.5**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	**1,3,5-Trimethylbenzene**	**1.4**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	5.2	10	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND	IS-HI, ICVE	mg/kg dry	0.52	1.0	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.52	1.0	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**2.4**	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**23**	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**2.0**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**3.6**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**81**		mg/kg dry	1.3	2.6	500	EPA 8260D	11/20/2023 09:00	11/20/2023 15:31	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.52	1.0	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**4.8**		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**9.5**		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**0.65**		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**2.4**		mg/kg dry	0.52	1.0	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**1.5**		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**1.8**		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**3.0**		mg/kg dry	0.78	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **23SP5 (15-17.5 ft)** **York Sample ID:** **23K0980-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*73.1 %*	IS-HI, S-04, S-08		*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.9 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*124 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyl dimethyl isomer**	**20**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Benzene ethyl isomer**	**7.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Benzene ethyl methyl isomer**	**9.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
050704-01-3	**benzene isomer**	**7.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Cyclohexane dimethyl cis is...**	**8.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Dimethylindene-dihydro isomer**	**15**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Heptane methyl isomer (01)**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Heptane methyl isomer (02)**	**7.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Hexane methyl isomer (01)**	**6.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Hexane methyl isomer (02)**	**8.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Indane methyl isomer**	**15**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Indene dihydro dimethyl isomer**	**8.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Indene dihydro methyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**methylOctane isomer**	**8.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,PADEP-68-04440	11/22/2023 12:48	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,PADEP-68-04440	11/22/2023 12:48	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,PADEP-68-04440	11/22/2023 12:48	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
91-57-6	**2-Methylnaphthalene**	**6.92**		mg/kg dry	0.149	0.298	5	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 16:22	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.211**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.239	0.477	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.179**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.239	0.477	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.572**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.546**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.444**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.329**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.380**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**0.531**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.0800**	J	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
206-44-0	**Fluoranthene**	**1.25**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.166**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.378**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	**Naphthalene**	**6.96**		mg/kg dry	0.149	0.298	5	EPA 8270D	11/21/2023 08:41	11/22/2023 16:22	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.825**		mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.41**		mg/kg dry	0.0597	0.119	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*68.6 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*62.8 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*%*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*53.8 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*76.3 %*		*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*55.4 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM	11/16/2023 08:36	11/16/2023 23:59	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*49.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.159	0.254	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 13:55	ER
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0760	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.151	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.257	0.263	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.247	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.240	0.267	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.271	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.274	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.284	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.234	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.179	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.148	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.212	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.278	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.156	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.209	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.222	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.274	0.277	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.854	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.08	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.156	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.199	0.511	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.277	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0890	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER

Sample Information

Client Sample ID: **23SP5 (15-17.5 ft)** **York Sample ID:** **23K0980-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.138	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.225	0.270	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.854	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.872	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.446	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.353	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.250	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.242	0.278	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.178	0.275	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.910	1.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.01	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.15	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.877	2.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.258	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.00	2.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.284	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*120 %*	*25-150*
Surrogate: M5PFHxA	*134 %*	*25-150*
Surrogate: M4PFHpA	*132 %*	*25-150*
Surrogate: M3PFHxS	*137 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*110 %*	*25-150*
Surrogate: M6PFDA	*143 %*	*25-150*
Surrogate: M7PFUdA	*127 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*117 %*	*25-150*
Surrogate: M2PFTeDA	*98.9 %*	*10-150*

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*130 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*116 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*136 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*92.3 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*85.5 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*103 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*83.5 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*110 %*			*25-200*						
	Surrogate: M9PFNA	*129 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*52.8 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*64.7 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*60.6 %*			*25-150*						
	Surrogate: M3HFPO-DA	*143 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*62.4 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*81.7 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.8**	**2.73**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 4.9**	**3.90**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.2 (01)**	**8.94**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.2 (02)**	**4.28**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.5 (01)**	**2.18**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.5 (02)**	**4.87**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.6**	**5.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Cyclohexane Isomer RT 4.0**	**2.41**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**5.26**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Dihydro Dimethyl 1H-Indene ...**	**2.40**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**dimethyl Naphthalene Isomer...**	**3.32**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Methyl Octane Isomer RT 3.6**	**3.96**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Methyl Propyl Benzene Isome...**	**2.55**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Propyl Benzene RT 4.3**	**7.08**	N, J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Tetramethyl Benzene Isomer ...**	**3.42**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.7**	**3.46**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 5.1**	**2.03**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Unknown PAH RT 11.4**	**2.49**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Unknown RT 4.2**	**2.49**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			
NA	**Unknown RT 5.0**	**5.61**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:48	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	47.6	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	11.9	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	120	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*107 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6460**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.60**		mg/kg dry	1.82	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**124**		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.363	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**36900**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**44.2**		mg/kg dry	0.605	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.75**		mg/kg dry	0.484	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**41.3**		mg/kg dry	2.42	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**12400**		mg/kg dry	30.2	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**226**	B	mg/kg dry	0.605	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**8890**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**252**		mg/kg dry	0.605	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	**Nickel**	**39.1**		mg/kg dry	1.21	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1330**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.610	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**819**		mg/kg dry	60.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**25.9**		mg/kg dry	1.21	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**107**		mg/kg dry	3.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Metals, TCLP RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.375	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:41	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.907**		mg/L	0.625	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:41	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:41	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:41	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.589**		mg/L	0.125	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:41	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/L	0.625	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:41	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010D/1311	12/22/2023 09:07	12/22/2023 13:41	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.16**		mg/kg dry	0.0436	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Mercury, TCLP

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7470/1311	12/22/2023 08:53	12/22/2023 08:53	PFA
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04440,NELAC-NY10		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.726	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**44.2**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Corrosivity (pH) by SM 4500/EPA 9045D

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**8.15**	HT-pH	pH units	0.500	1	EPA 9045D	12/18/2023 14:47	12/18/2023 22:53	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,PADEP-68-04440		

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**2.54**		mg/kg dry	0.726	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**68.9**		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	12/21/2023 11:45	12/22/2023 09:07	TAJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	0.049	0.098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.011**	ICVE	mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.0031**	J	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.0050**		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02, CCVE	mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.9 %*		*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.5 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*		*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,PADEP-68-04440
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,PADEP-68-04440
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.201	0.401	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 13:18	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.201	0.401	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/22/2023 13:18	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
65-85-0	Benzoic acid	ND	CCVE, CAL-E	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 13:18	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 13:18	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 13:18	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 13:18	KH-

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
85-01-8	Phenanthrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*65.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*98.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*84.4 %*	*24-116*

Sample Information

Client Sample ID: **23SP5 (25-27.5 ft)** **York Sample ID:** **23K0980-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0192	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/17/2023 00:16	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.135	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0644	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.128	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.217	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.209	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.203	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.230	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.232	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.240	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.198	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.152	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.125	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.180	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.236	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.132	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.177	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.188	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER

Sample Information

Client Sample ID: **23SP5 (25-27.5 ft)** **York Sample ID:** **23K0980-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.723	0.923	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.917	0.933	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.267**	J	ug/kg dry	0.132	0.972	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.169	0.432	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.234	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0753	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.117	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.191	0.228	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.723	0.911	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.738	0.972	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.378	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.299	0.909	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.211	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.205	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.151	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.770	1.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.55	6.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.82	6.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.742	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.219	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.847	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.240	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER

Sample Information

Client Sample ID: **23SP5 (25-27.5 ft)** **York Sample ID:** **23K0980-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
	Surrogate: M3PFBS	*69.3 %*		*25-150*							
	Surrogate: M5PFHxA	*87.1 %*		*25-150*							
	Surrogate: M4PFHpA	*105 %*		*25-150*							
	Surrogate: M3PFHxS	*90.7 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*84.0 %*		*25-150*							
	Surrogate: M6PFDA	*96.2 %*		*25-150*							
	Surrogate: M7PFUdA	*96.7 %*		*25-150*							
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*83.8 %*		*25-150*							
	Surrogate: M2PFTeDA	*70.1 %*		*10-150*							
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.37 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*80.3 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*8.07 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*58.9 %*		*10-150*							
	Surrogate: d3-N-MeFOSAA	*53.0 %*		*25-150*							
	Surrogate: d5-N-EtFOSAA	*64.4 %*		*25-150*							
	Surrogate: M2-6:2 FTS	*44.8 %*		*25-200*							
	Surrogate: M2-8:2 FTS	*48.6 %*		*25-200*							
	Surrogate: M9PFNA	*89.7 %*		*25-150*							
	Surrogate: M2-4:2 FTS	*51.7 %*		*25-150*							
	Surrogate: d-N-MeFOSA	*46.7 %*		*25-150*							
	Surrogate: d-N-EtFOSA	*43.6 %*		*25-150*							
	Surrogate: M3HFPO-DA	*100 %*		*25-150*							
	Surrogate: d9-N-EtFOSE	*33.5 %*		*25-150*							
	Surrogate: d7-N-MeFOSE	*49.3 %*		*25-150*							

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	39.5	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/21/2023 22:03	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
72-20-8	Endrin	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.88	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	100	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10400**		mg/kg dry	5.09	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.55	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**3.19**		mg/kg dry	1.53	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**55.2**		mg/kg dry	2.54	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.305	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2300**		mg/kg dry	5.09	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**34.1**		mg/kg dry	0.510	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.77**		mg/kg dry	0.407	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**19.8**		mg/kg dry	2.04	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**18700**		mg/kg dry	25.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**7.27**	B	mg/kg dry	0.510	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**5710**		mg/kg dry	5.10	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**111**		mg/kg dry	0.510	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**18.4**		mg/kg dry	1.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2640**		mg/kg dry	5.10	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.09**		mg/kg dry	2.55	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.513	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	50.9	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.55	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.1**		mg/kg dry	1.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**84.5**		mg/kg dry	2.54	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0367	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**1.76**		mg/kg dry	0.611	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**32.3**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.611	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.8**		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP6 (0-2.5 ft)** **York Sample ID:** **23K0980-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	mg/kg dry	0.051	0.10	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: **23SP6 (0-2.5 ft)** **York Sample ID:** **23K0980-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.0088**	J, ICVE	mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND	QL-02	mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.8 %*		*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.2 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*111 %*		*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 18:57	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 18:57	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 18:57	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0455**	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.145**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/21/2023 18:57	KH
56-55-3	**Benzo(a)anthracene**	**0.557**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
50-32-8	**Benzo(a)pyrene**	**0.680**	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
205-99-2	**Benzo(b)fluoranthene**	**0.844**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.525**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
207-08-9	**Benzo(k)fluoranthene**	**0.257**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 18:57	KH
86-74-8	**Carbazole**	**0.0469**	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
218-01-9	**Chrysene**	**0.550**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.120**	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 18:57	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 18:57	KH

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:			
206-44-0	**Fluoranthene**	**1.01**		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	**Fluorene**	**0.0455**	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.610**	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.574**		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.950**		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*46.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*48.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*53.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*51.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*55.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*57.0 %*	*24-116*

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0194	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/17/2023 00:51	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*53.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.120	0.192	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0573	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.186	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.181	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.214	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.176	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.135	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.111	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.160	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.210	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.118	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.644	0.822	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.817	0.831	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.118	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.150	0.385	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.209	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0671	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.644	0.812	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.658	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.337	0.818	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.266	0.809	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.188	0.818	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.183	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.134	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.686	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.27	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.62	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.661	2.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.195	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.754	2.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.214	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER

Sample Information

Client Sample ID: **23SP6 (0-2.5 ft)** **York Sample ID:** **23K0980-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
	Surrogate: M3PFBS	*69.2 %*			*25-150*						
	Surrogate: M5PFHxA	*92.4 %*			*25-150*						
	Surrogate: M4PFHpA	*119 %*			*25-150*						
	Surrogate: M3PFHxS	*127 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*			*25-150*						
	Surrogate: M6PFDA	*118 %*			*25-150*						
	Surrogate: M7PFUdA	*114 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*108 %*			*25-150*						
	Surrogate: M2PFTeDA	*87.2 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.44 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*105 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*7.31 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*78.1 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*75.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*93.7 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*80.4 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*116 %*			*25-200*						
	Surrogate: M9PFNA	*126 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*59.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*47.2 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*44.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*96.3 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*44.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*62.3 %*			*25-150*						

Sample Information

Client Sample ID: **23SP6 (0-2.5 ft)** **York Sample ID:** **23K0980-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 11.8**	**0.879**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH
NA	**Unknown RT 15.9**	**0.929**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH
NA	**Unknown RT 7.6**	**1.71**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
50-29-3	**4,4'-DDT**	**2.74**		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 14:49	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	35.1	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/21/2023 14:49	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
72-20-8	Endrin	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 14:49	BCJ

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 14:49 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 14:49 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 14:49 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.75	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 14:49 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	8.77	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 14:49 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	88.8	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 14:49 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*75.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
53469-21-9	Aroclor 1242	ND	PCB-I	mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:23	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.5 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

7439-92-1	Lead	ND	mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 15:06	CEG
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7070**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.67**		mg/kg dry	1.36	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**157**		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**1.21**		mg/kg dry	0.271	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**24900**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**17.9**		mg/kg dry	0.452	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.77**		mg/kg dry	0.361	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**57.7**		mg/kg dry	1.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**14700**		mg/kg dry	22.6	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**318**	B	mg/kg dry	0.452	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**9050**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**216**		mg/kg dry	0.452	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**15.0**		mg/kg dry	0.900	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1340**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.455	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**453**		mg/kg dry	45.2	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.1**		mg/kg dry	0.900	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**42.0**		mg/kg dry	2.25	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.281**		mg/kg dry	0.0325	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**2.69**		mg/kg dry	0.542	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.2**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.542	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.2**		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/24/2024 11:47	01/25/2024 08:54	TAJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	7.2	14	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	QL-02, CCVE, ICVE	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**15**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**2.2**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**42**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**4.5**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**6.0**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	o-Xylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**1.2**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	**sec-Butylbenzene**	**1.6**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-88-3	Toluene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723	SKF
79-01-6	Trichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
1330-20-7	Xylenes, Total	ND		mg/kg dry	1.1	2.2	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*84.8 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*123 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene butenyl isomer**	**31**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Benzene ethyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
050704-01-3	**benzene isomer**	**8.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Benzene methyl isomer**	**24**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Bicyclo octane isomer**	**23**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Cyclohexane dimethyl cis is...**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Heptane methyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Hexane methyl isomer**	**8.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Indane methyl isomer**	**16**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Indene dihydro dimethyl isomer (01)**	**14**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Indene dihydro dimethyl isomer (02)**	**8.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Indene dihydro methyl isomer**	**14**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Octane methyl isomer**	**8.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 19:28	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 19:28	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 19:28	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.198**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0993**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.211	0.421	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.211	0.421	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH
56-55-3	**Benzo(a)anthracene**	**0.0833**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
50-32-8	**Benzo(a)pyrene**	**0.156**	CCVE	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
205-99-2	**Benzo(b)fluoranthene**	**0.182**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.188**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
207-08-9	**Benzo(k)fluoranthene**	**0.0673**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
218-01-9	**Chrysene**	**0.0791**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.0631**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
122-39-4	* Diphenylamine	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	**Fluoranthene**	**0.127**		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	Fluorene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.183**	CCVE	mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
78-59-1	Isophorone	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.118**		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.156**		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*84.6 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*92.5 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*%*	S-04, S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.6 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*133 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*72.6 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP6 (12.5-15 ft)** **York Sample ID:** **23K0980-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/17/2023 01:08	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.142	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0680	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.135	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.230	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.221	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.214	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.243	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.245	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.254	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.209	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.160	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.132	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.190	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.249	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.140	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.187	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.199	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.245	0.248	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.764	0.976	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.969	0.986	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.141**	J	ug/kg dry	0.140	1.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.178	0.457	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.248	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0796	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.123	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.202	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.764	0.963	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.780	1.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.399	0.970	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.316	0.960	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.223	0.970	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.217	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.159	0.246	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.814	1.28	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.69	6.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.93	6.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.784	2.57	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.231	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.895	2.57	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.254	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **23SP6 (12.5-15 ft)** **York Sample ID:** **23K0980-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFBS	*87.7 %*			*25-150*						
	Surrogate: M5PFHxA	*113 %*			*25-150*						
	Surrogate: M4PFHpA	*130 %*			*25-150*						
	Surrogate: M3PFHxS	*136 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*112 %*			*25-150*						
	Surrogate: M6PFDA	*143 %*			*25-150*						
	Surrogate: M7PFUdA	*126 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*105 %*			*25-150*						
	Surrogate: M2PFTeDA	*100 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.69 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*130 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*7.37 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*95.4 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*83.5 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*100 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*69.7 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*87.8 %*			*25-200*						
	Surrogate: M9PFNA	*150 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*50.3 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*61.8 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*61.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*128 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*57.9 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*75.3 %*			*25-150*						

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.6**	**2.45**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.4 (01)**	**2.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.4 (02)**	**6.21**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.5**	**5.67**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.7 (01)**	**12.4**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.7 (02)**	**5.43**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.9**	**1.54**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 6.0**	**1.94**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 6.1**	**2.36**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Cyclohexane Isomer RT 4.5**	**3.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Cyclohexane Isomer RT 5.4**	**2.68**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Cyclohexene Isomer RT 5.0**	**1.64**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Sulfurous Acid Isomer RT 5.0**	**1.43**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 3.8**	**1.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.1**	**3.18**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.6**	**2.29**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.8 (01)**	**5.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.8 (02)**	**2.25**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 5.3**	**2.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 7.7**	**1.39**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown PAH RT 13.0**	**1.79**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 12.1**	**7.35**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			
NA	**Unknown RT 4.8**	**1.94**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			
NA	**Unknown RT 5.5**	**6.40**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			
NA	**Unknown RT 5.8**	**3.17**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	42.5	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-43-5	Methoxychlor	ND		ug/kg dry	10.6	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
8001-35-2	Toxaphene	ND		ug/kg dry	107	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.5 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

7439-92-1	**Lead**	**0.875**	mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 15:14	CEG
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11200**		mg/kg dry	5.38	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-38-2	**Arsenic**	**8.73**		mg/kg dry	1.61	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**143**		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/kg dry	0.323	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**9230**		mg/kg dry	5.38	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**22.3**		mg/kg dry	0.539	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.33**		mg/kg dry	0.430	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**34.8**		mg/kg dry	2.15	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**17400**		mg/kg dry	26.9	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**335**	B	mg/kg dry	0.539	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4600**		mg/kg dry	5.39	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**278**		mg/kg dry	0.539	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.4**		mg/kg dry	1.07	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**4340**		mg/kg dry	5.39	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.04**		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.542	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-23-5	Sodium	ND		mg/kg dry	53.8	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	**Vanadium**	**30.4**		mg/kg dry	1.07	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**53.4**		mg/kg dry	2.68	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.13**		mg/kg dry	0.0387	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.646	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**22.3**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.646	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.4**		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP6 (12.5-15 ft)** **York Sample ID:** **23K0980-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **23SP6 (15-17.5 ft)** **York Sample ID:** **23K0980-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**0.58**	J	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	ICVE, CCVE	mg/kg dry	11	23	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	mg/kg dry	1.1	2.3	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	1.1	2.3	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**2.6**		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**34**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**6.6**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**46**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	1.1	2.3	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**9.6**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**15**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**2.8**	QL-02	mg/kg dry	1.1	2.3	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**0.84**	J	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**5.5**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP6 (15-17.5 ft)** **York Sample ID:** **23K0980-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**2.1**	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**2.8**	J	mg/kg dry	1.7	3.4	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*88.2 %*		*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*90.0 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*139 %*	S-04, S-08	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**16**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene ethenyl dimethyl is...**	**37**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene ethyl dimethyl isomer**	**43**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
050704-01-3	**benzene isomer**	**30**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene methyl isomer (01)**	**15**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene methyl isomer (02)**	**15**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Cyclohexane dimethyl cis is...**	**62**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Cyclopentane trimethyl isomer**	**17**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Heptane methyl isomer**	**37**	J	mg/kg dry			100	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF
NA	**Hexane methyl isomer**	**16**	J	mg/kg dry			100	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF
NA	**Indene dihydro dimethyl isomer**	**18**	J	mg/kg dry			100	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF
NA	**Indene dihydro methyl isomer**	**21**	J	mg/kg dry			100	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 15:03	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:59	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:59	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 19:59	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:59	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 19:59	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 19:59	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:59	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
62-53-3	Aniline	ND		mg/kg dry	0.262	0.525	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.262	0.525	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
50-32-8	**Benzo(a)pyrene**	**0.115**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
205-99-2	**Benzo(b)fluoranthene**	**0.126**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.115**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
122-39-4	* Diphenylamine	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
206-44-0	**Fluoranthene**	**0.0942**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:59	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.142**	CCVE	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:59	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
108-95-2	Phenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:59	KH
129-00-0	**Pyrene**	**0.111**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:59	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*88.2 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*88.5 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*98.1 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.3 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*119 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.4 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP6 (15-17.5 ft)** **York Sample ID:** **23K0980-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/17/2023 01:26	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.7 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.176	0.281	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0840	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.166	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.284	0.290	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.273	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.265	0.295	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.300	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.303	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.314	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.258	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.198	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.163	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.235	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.308	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.173	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.231	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.246	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.303	0.306	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.943	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.20	1.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.173	1.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.220	0.564	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.306	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0983	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.152	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.249	0.298	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.943	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.964	1.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.493	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.390	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.276	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.268	0.308	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.197	0.304	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	1.01	1.59	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.33	7.93	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.38	7.93	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.969	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.285	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.10	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.314	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER

Sample Information

Client Sample ID: **23SP6 (15-17.5 ft)** **York Sample ID:** **23K0980-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
	Surrogate: M3PFBS	*78.4 %*		*25-150*							
	Surrogate: M5PFHxA	*112 %*		*25-150*							
	Surrogate: M4PFHpA	*124 %*		*25-150*							
	Surrogate: M3PFHxS	*129 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*113 %*		*25-150*							
	Surrogate: M6PFDA	*138 %*		*25-150*							
	Surrogate: M7PFUdA	*127 %*		*25-150*							
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*108 %*		*25-150*							
	Surrogate: M2PFTeDA	*88.8 %*		*10-150*							
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.39 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*124 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*7.23 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*83.0 %*		*10-150*							
	Surrogate: d3-N-MeFOSAA	*79.0 %*		*25-150*							
	Surrogate: d5-N-EtFOSAA	*91.5 %*		*25-150*							
	Surrogate: M2-6:2 FTS	*73.2 %*		*25-200*							
	Surrogate: M2-8:2 FTS	*94.5 %*		*25-200*							
	Surrogate: M9PFNA	*119 %*		*25-150*							
	Surrogate: M2-4:2 FTS	*63.4 %*		*25-150*							
	Surrogate: d-N-MeFOSA	*55.0 %*		*25-150*							
	Surrogate: d-N-EtFOSA	*50.0 %*		*25-150*							
	Surrogate: M3HFPO-DA	*126 %*		*25-150*							
	Surrogate: d9-N-EtFOSE	*55.4 %*		*25-150*							
	Surrogate: d7-N-MeFOSE	*69.0 %*		*25-150*							

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.4**	**4.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Benzene Isomer RT 5.8**	**2.68**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Benzene Isomer RT 6.0**	**1.85**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Benzene Isomer RT 6.1**	**1.60**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Cyclohexane Isomer RT 3.4**	**1.83**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Cyclohexane Isomer RT 3.9**	**1.75**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Cyclohexene Isomer RT 5.0**	**1.47**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Trimethyl Cyclohexane Isome...**	**1.52**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 3.8 (01)**	**2.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 3.8 (02)**	**2.22**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.1**	**2.45**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.5**	**1.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.6**	**3.28**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.8 (01)**	**2.39**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.8 (02)**	**4.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.8 (03)**	**1.74**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 5.3**	**1.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 5.5**	**2.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 12.1**	**4.16**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 4.3**	**1.89**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 4.5**	**5.12**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 4.6**	**3.15**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:59	KH
								Certifications:			
NA	**Unknown RT 5.0**	**1.63**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:59	KH
								Certifications:			
NA	**Unknown RT 5.1**	**1.50**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:59	KH
								Certifications:			
NA	**Unknown RT 5.5**	**3.72**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:59	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	52.7	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:38 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:38 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:38 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:38 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	13.2	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:38 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	133	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:38 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0266	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:51	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.0 %*	*30-140*

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP6 (15-17.5 ft)** **York Sample ID:** **23K0980-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

7439-92-1	**Lead**	**1.66**	mg/L	0.125	1	EPA 6010D/1311	01/30/2024 08:46	01/30/2024 15:18	CEG
						Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7700**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	3.35	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-38-2	**Arsenic**	**10.2**		mg/kg dry	2.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**178**		mg/kg dry	3.34	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.068	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/kg dry	0.402	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**5380**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**15.4**		mg/kg dry	0.670	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.74**		mg/kg dry	0.535	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**47.1**		mg/kg dry	2.68	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**11800**		mg/kg dry	33.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**256**	B	mg/kg dry	0.670	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**1170**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**162**		mg/kg dry	0.670	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**17.1**		mg/kg dry	1.33	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1460**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	3.35	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.675	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-23-5	**Sodium**	**398**		mg/kg dry	67.0	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.35	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	**Vanadium**	**26.2**		mg/kg dry	1.33	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**36.2**		mg/kg dry	3.34	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.37**		mg/kg dry	0.0482	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.804	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.4**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.804	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**62.2**		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications:	CTDOH-PH-0723		

TCLP Extraction for METALS EPA 1311

Log-in Notes: **Sample Notes:** **EXT-Temp**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

TCLP Extraction for METALS EPA 1311 **Log-in Notes:** **Sample Notes:** EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	01/23/2024 15:46	01/24/2024 09:13	CAM2
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	0.059	0.12	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.042**	ICVE	mg/kg dry	0.0059	0.012	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
107-02-8	Acrolein	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	**Carbon disulfide**	**0.011**		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.0049**	J	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**0.0045**	J	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **23SP6 (22.5-25 ft)** **York Sample ID:** **23K0980-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0089	0.018	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.6 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*119 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,PADEP-68-04440

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,PADEP-68-04440	11/21/2023 20:30	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 20:30	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 20:30	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 20:30	KH

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.118**	J	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.241	0.482	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.287**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.241	0.482	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.530**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.504**	CCVE	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.532**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.255**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.194**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	**Carbazole**	**0.0875**	J	mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
218-01-9	**Chrysene**	**0.479**		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0875**	J	mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
122-39-4	* Diphenylamine	ND		mg/kg dry	0.120	0.240	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:			
206-44-0	**Fluoranthene**	**1.02**		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	**Fluorene**	**0.120**		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.309**	CCVE	mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
78-59-1	Isophorone	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	**Phenanthrene**	**0.885**		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.932**		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*85.4 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*81.5 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*79.4 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*75.0 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*112 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.3 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM	11/16/2023 08:36	11/17/2023 01:43	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*58.7 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.161	0.256	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0767	0.289	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.152	0.289	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.259	0.265	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.249	0.289	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.242	0.269	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.274	0.289	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: **23SP6 (22.5-25 ft)** **York Sample ID:** **23K0980-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.276	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.287	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.236	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.181	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.149	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.214	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.281	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.158	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.211	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.224	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.276	0.279	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.861	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.09	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.159**	J	ug/kg dry	0.158	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.201	0.515	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.279	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0897	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.139	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.227	0.272	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.861	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.880	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.450	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.356	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
919005-14-4	* ADONA	ND		ug/kg dry	0.252	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.245	0.281	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.179	0.278	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.918	1.45	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.04	7.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.17	7.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.884	2.89	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.261	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.01	2.89	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.287	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*84.8 %*	*25-150*
Surrogate: M5PFHxA	*105 %*	*25-150*
Surrogate: M4PFHpA	*120 %*	*25-150*
Surrogate: M3PFHxS	*133 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*101 %*	*25-150*
Surrogate: M6PFDA	*100 %*	*25-150*
Surrogate: M7PFUdA	*92.7 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*79.8 %*	*25-150*
Surrogate: M2PFTeDA	*66.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.37 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.6 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.90 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*59.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*45.6 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*49.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*61.9 %*	*25-200*
Surrogate: M2-8:2 FTS	*50.9 %*	*25-200*

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M9PFNA	*107 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*68.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*46.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*38.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*111 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*26.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*41.4 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Phenanthrenecarboxylic Acid...**	**0.990**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:			
NA	**Unknown PAH RT 13.0**	**1.41**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:			
NA	**Unknown RT 12.1**	**1.27**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	48.0	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	12.0	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	122	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14700**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.66**		mg/kg dry	1.84	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**50.3**		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.368	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1830**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**28.4**		mg/kg dry	0.613	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.90**		mg/kg dry	0.490	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**11.5**		mg/kg dry	2.45	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**24700**		mg/kg dry	30.6	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**14.9**	B	mg/kg dry	0.613	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**5670**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**295**		mg/kg dry	0.613	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.5**		mg/kg dry	1.22	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**3020**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**5.89**		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.618	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**155**		mg/kg dry	61.3	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**34.2**		mg/kg dry	1.22	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**70.2**		mg/kg dry	3.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0441	1	EPA 7473	11/21/2023 14:41	11/21/2023 21:12	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.735	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**28.4**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.735	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	68.0		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23K0980-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0980-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND	QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0980-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	QL-02, CCVE, ICVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23K0980-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.5 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K0980-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0980-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND	QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Field Blank

York Sample ID: 23K0980-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0980-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K0980-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA

Sample Information

Client Sample ID: PFAS Field Blank **York Sample ID:** 23K0980-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.470	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.350	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.710	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.680	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.420	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.820	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.520	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.750	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.740	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.690	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2355-31-9	N-MeFOSAA	ND		ng/L	0.790	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.230	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER

Sample Information

Client Sample ID: PFAS Field Blank

York Sample ID: 23K0980-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.910	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.06	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**5.32**	J	ng/L	0.330	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.760	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
756426-58-1	9CL-PF3ONS	ND		ng/L	0.700	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
919005-14-4	ADONA	ND		ng/L	0.530	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.930	1.94	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.860	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.33	25.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.47	25.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER

Sample Information

Client Sample ID: PFAS Field Blank

York Sample ID: 23K0980-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*89.8 %*	*25-150*
Surrogate: M5PFHxA	*97.9 %*	*25-150*
Surrogate: M4PFHpA	*115 %*	*25-150*
Surrogate: M3PFHxS	*109 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*90.6 %*	*25-150*
Surrogate: M6PFDA	*109 %*	*25-150*
Surrogate: M7PFUdA	*113 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*92.4 %*	*25-150*
Surrogate: M2PFTeDA	*42.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.683 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*97.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*14.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*75.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*48.2 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*56.2 %*	*25-150*
Surrogate: M2-6:2 FTS	*55.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*46.8 %*	*25-200*
Surrogate: M9PFNA	*99.7 %*	*25-150*
Surrogate: M2-4:2 FTS	*61.3 %*	*25-150*
Surrogate: d-N-MeFOSA	*54.2 %*	*25-150*
Surrogate: d-N-EtFOSA	*41.1 %*	*25-150*
Surrogate: M3HFPO-DA	*111 %*	*25-150*
Surrogate: d9-N-EtFOSE	*20.8 %*	*25-150*
Surrogate: d7-N-MeFOSE	*34.3 %*	*25-150*

Analytical Batch Summary

Batch ID: BA41478 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** LC

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	01/23/24
23K0980-02	23SP5 (12.5-15 ft)	01/23/24
23K0980-06	23SP6 (12.5-15 ft)	01/23/24
23K0980-07	23SP6 (15-17.5 ft)	01/23/24
BA41478-BLK1	Blank	01/23/24

Batch ID: BA41544 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** LC

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-05	23SP6 (0-2.5 ft)	01/24/24
BA41544-BLK1	Blank	01/24/24

Batch ID: BA41816 **Preparation Method:** EPA SW846-7470A **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-02	23SP5 (12.5-15 ft)	01/29/24
BA41816-BLK1	Blank	01/29/24
BA41816-BLK2	Blank	01/29/24
BA41816-BS1	LCS	01/29/24
BA41816-BS2	LCS	01/29/24
BA41816-LBK1	Leach Fluid Blank	01/29/24

Batch ID: BA41914 **Preparation Method:** EPA 3015A/1311 **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	01/30/24
23K0980-02	23SP5 (12.5-15 ft)	01/30/24
23K0980-05	23SP6 (0-2.5 ft)	01/30/24
23K0980-06	23SP6 (12.5-15 ft)	01/30/24
23K0980-07	23SP6 (15-17.5 ft)	01/30/24
BA41914-BLK1	Blank	01/30/24
BA41914-BS1	LCS	01/30/24
BA41914-DUP1	Duplicate	01/30/24
BA41914-LBK1	Leach Fluid Blank	01/30/24
BA41914-MS1	Matrix Spike	01/30/24
BA41914-PS1	Post Spike	01/30/24

Batch ID: BK31066 **Preparation Method:** EPA 3550C **Prepared By:** me

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/16/23
23K0980-02	23SP5 (12.5-15 ft)	11/16/23
23K0980-03	23SP5 (15-17.5 ft)	11/16/23

23K0980-04	23SP5 (25-27.5 ft)	11/16/23
23K0980-05	23SP6 (0-2.5 ft)	11/16/23
23K0980-06	23SP6 (12.5-15 ft)	11/16/23
23K0980-07	23SP6 (15-17.5 ft)	11/16/23
23K0980-08	23SP6 (22.5-25 ft)	11/16/23
BK31066-BLK1	Blank	11/16/23
BK31066-BS1	LCS	11/16/23
BK31066-MS1	Matrix Spike	11/16/23
BK31066-MSD1	Matrix Spike Dup	11/16/23

Batch ID: BK31234 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/19/23
23K0980-02	23SP5 (12.5-15 ft)	11/19/23
23K0980-03	23SP5 (15-17.5 ft)	11/19/23
23K0980-04	23SP5 (25-27.5 ft)	11/19/23
23K0980-05	23SP6 (0-2.5 ft)	11/19/23
23K0980-06	23SP6 (12.5-15 ft)	11/19/23
23K0980-07	23SP6 (15-17.5 ft)	11/19/23
BK31234-BLK1	Blank	11/19/23
BK31234-DUP1	Duplicate	11/19/23
BK31234-MS1	Matrix Spike	11/19/23
BK31234-SRM1	Reference	11/19/23

Batch ID: BK31235 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31235-BLK1	Blank	11/20/23
BK31235-BLK2	Blank	11/20/23
BK31235-BS1	LCS	11/20/23
BK31235-BS2	LCS	11/20/23
BK31235-MS1	Matrix Spike	11/20/23
BK31235-MS2	Matrix Spike	11/20/23
BK31235-MSD1	Matrix Spike Dup	11/20/23

BK31235-MSD2	Matrix Spike Dup	11/20/23

Batch ID: BK31242 **Preparation Method:** EPA 5030B/1311 **Prepared By:** SKF

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-02	23SP5 (12.5-15 ft)	11/19/23
23K0980-03	23SP5 (15-17.5 ft)	11/19/23
23K0980-04	23SP5 (25-27.5 ft)	11/19/23
23K0980-06	23SP6 (12.5-15 ft)	11/19/23
23K0980-08	23SP6 (22.5-25 ft)	11/19/23
BK31242-BLK1	Blank	11/19/23
BK31242-BLK2	Blank	11/19/23
BK31242-BS1	LCS	11/19/23
BK31242-BSD1	LCS Dup	11/19/23

Batch ID: BK31257 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02RE1	23SP5 (12.5-15 ft)	11/20/23
23K0980-03RE1	23SP5 (15-17.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
BK31257-BLK1	Blank	11/20/23
BK31257-BLK2	Blank	11/20/23
BK31257-BS1	LCS	11/20/23
BK31257-BSD1	LCS Dup	11/20/23

Batch ID: BK31284 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31284-BLK1	Blank	11/20/23
BK31284-BS1	LCS	11/20/23
BK31284-MS1	Matrix Spike	11/20/23
BK31284-MSD1	Matrix Spike Dup	11/20/23

Batch ID: BK31292 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23

23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31292-BLK1	Blank	11/20/23
BK31292-BS1	LCS	11/20/23
BK31292-BS2	LCS	11/20/23
BK31292-DUP1	Duplicate	11/20/23

Batch ID: BK31294 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31294-BLK1	Blank	11/20/23
BK31294-DUP1	Duplicate	11/20/23
BK31294-MS1	Matrix Spike	11/20/23
BK31294-MSD1	Matrix Spike Dup	11/20/23
BK31294-SRM1	Reference	11/20/23

Batch ID: BK31296 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-09	Trip Blank	11/20/23
23K0980-10	Field Blank	11/20/23
BK31296-BLK1	Blank	11/20/23
BK31296-BS1	LCS	11/20/23
BK31296-BSD1	LCS Dup	11/20/23

Batch ID: BK31311 **Preparation Method:** EPA SW846-3060 **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31311-BLK1	Blank	11/20/23
BK31311-DUP1	Duplicate	11/20/23

BK31311-MS1	Matrix Spike	11/20/23
BK31311-MSD1	Matrix Spike Dup	11/20/23
BK31311-SRM1	Reference	11/20/23

Batch ID: BK31369 **Preparation Method:** % Solids Prep **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/21/23
23K0980-02	23SP5 (12.5-15 ft)	11/21/23
23K0980-03	23SP5 (15-17.5 ft)	11/21/23
23K0980-04	23SP5 (25-27.5 ft)	11/21/23
BK31369-DUP1	Duplicate	11/21/23

Batch ID: BK31378 **Preparation Method:** % Solids Prep **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-05	23SP6 (0-2.5 ft)	11/21/23
23K0980-06	23SP6 (12.5-15 ft)	11/21/23
23K0980-07	23SP6 (15-17.5 ft)	11/21/23
23K0980-08	23SP6 (22.5-25 ft)	11/21/23
BK31378-DUP1	Duplicate	11/21/23

Batch ID: BK31385 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/21/23
23K0980-01	23SP5 (0-2.5 ft)	11/21/23
23K0980-02	23SP5 (12.5-15 ft)	11/21/23
23K0980-02	23SP5 (12.5-15 ft)	11/21/23
23K0980-02RE2	23SP5 (12.5-15 ft)	11/21/23
23K0980-03	23SP5 (15-17.5 ft)	11/21/23
23K0980-03	23SP5 (15-17.5 ft)	11/21/23
23K0980-03RE2	23SP5 (15-17.5 ft)	11/21/23
23K0980-04	23SP5 (25-27.5 ft)	11/21/23
23K0980-04	23SP5 (25-27.5 ft)	11/21/23
BK31385-BLK1	Blank	11/21/23
BK31385-BLK1	Blank	11/21/23
BK31385-BS1	LCS	11/21/23
BK31385-MS1	Matrix Spike	11/21/23
BK31385-MSD1	Matrix Spike Dup	11/21/23

Batch ID: BK31413 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-11	PFAS Field Blank	11/21/23
BK31413-BLK1	Blank	11/21/23
BK31413-BS1	LCS	11/21/23
BK31413-BS2	LCS	11/21/23
BK31413-DUP1	Duplicate	11/21/23

Batch ID: BK31420 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-08	23SP6 (22.5-25 ft)	11/21/23
BK31420-BLK1	Blank	11/21/23
BK31420-DUP1	Duplicate	11/21/23
BK31420-MS1	Matrix Spike	11/21/23
BK31420-SRM1	Reference	11/21/23

Batch ID: BK31444 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/22/23
23K0980-02	23SP5 (12.5-15 ft)	11/22/23
23K0980-03	23SP5 (15-17.5 ft)	11/22/23
23K0980-04	23SP5 (25-27.5 ft)	11/22/23
23K0980-05	23SP6 (0-2.5 ft)	11/22/23
23K0980-06	23SP6 (12.5-15 ft)	11/22/23
23K0980-07	23SP6 (15-17.5 ft)	11/22/23
23K0980-08	23SP6 (22.5-25 ft)	11/22/23

Batch ID: BK31472 **Preparation Method:** EPA 3050B **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/22/23
23K0980-02	23SP5 (12.5-15 ft)	11/22/23
23K0980-03	23SP5 (15-17.5 ft)	11/22/23
23K0980-04	23SP5 (25-27.5 ft)	11/22/23
23K0980-05	23SP6 (0-2.5 ft)	11/22/23
23K0980-06	23SP6 (12.5-15 ft)	11/22/23
23K0980-07	23SP6 (15-17.5 ft)	11/22/23
23K0980-08	23SP6 (22.5-25 ft)	11/22/23
BK31472-BLK1	Blank	11/22/23
BK31472-DUP1	Duplicate	11/22/23
BK31472-MS1	Matrix Spike	11/22/23
BK31472-PS1	Post Spike	11/22/23
BK31472-SRM1	Reference	11/22/23

Batch ID: BL31191 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-03	23SP5 (15-17.5 ft)	12/18/23
BL31191-DUP1	Duplicate	12/18/23

Batch ID: BL31522 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** LC

YORK Sample ID	Client Sample ID	Preparation Date

23K0980-03	23SP5 (15-17.5 ft)	12/21/23
BL31522-BLK1	Blank	12/21/23

Batch ID: BL31603 **Preparation Method:** EPA SW846-7470A **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-03	23SP5 (15-17.5 ft)	12/22/23
BL31603-BLK1	Blank	12/22/23
BL31603-BLK2	Blank	12/22/23
BL31603-BS1	LCS	12/22/23
BL31603-BS2	LCS	12/22/23
BL31603-LBK1	Leach Fluid Blank	12/22/23

Batch ID: BL31609 **Preparation Method:** EPA 3015A/1311 **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-03	23SP5 (15-17.5 ft)	12/22/23
BL31609-BLK1	Blank	12/22/23
BL31609-BS1	LCS	12/22/23
BL31609-DUP1	Duplicate	12/22/23
BL31609-LBK1	Leach Fluid Blank	12/22/23
BL31609-MS1	Matrix Spike	12/22/23
BL31609-PS1	Post Spike	12/22/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
Blank (BK31242-BLK1)											Prepared & Analyzed: 11/19/2023
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
Blank (BK31242-BLK1)										Prepared & Analyzed: 11/19/2023	
Methylcyclohexane	ND	0.0050	mg/kg wet								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*46.8*		*ug/L*	*50.0*		*93.6*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.6*		*"*	*50.0*		*97.1*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.4*		*"*	*50.0*		*111*	*76-130*				
Blank (BK31242-BLK2)										Prepared & Analyzed: 11/19/2023	
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
Blank (BK31242-BLK2)									Prepared & Analyzed: 11/19/2023		
Acrolein	ND	1.0	mg/kg wet								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.7*		*ug/L*	*50.0*		*95.3*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.1*		*"*	*50.0*		*96.2*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.8*		*"*	*50.0*		*112*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
LCS (BK31242-BS1)								Prepared & Analyzed: 11/19/2023			
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.0	75-129				
1,1,1-Trichloroethane	46		"	50.0		91.3	71-137				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.6	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		101	58-146				
1,1,2-Trichloroethane	45		"	50.0		89.1	83-123				
1,1-Dichloroethane	44		"	50.0		88.5	75-130				
1,1-Dichloroethylene	48		"	50.0		96.0	64-137				
1,2,3-Trichlorobenzene	44		"	50.0		88.5	81-140				
1,2,3-Trichloropropane	46		"	50.0		91.8	81-126				
1,2,4-Trichlorobenzene	47		"	50.0		93.9	80-141				
1,2,4-Trimethylbenzene	48		"	50.0		97.0	84-125				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.4	74-142				
1,2-Dibromoethane	46		"	50.0		91.1	86-123				
1,2-Dichlorobenzene	47		"	50.0		94.7	85-122				
1,2-Dichloroethane	46		"	50.0		92.5	71-133				
1,2-Dichloropropane	41		"	50.0		82.4	81-122				
1,3,5-Trimethylbenzene	49		"	50.0		97.1	82-126				
1,3-Dichlorobenzene	47		"	50.0		94.6	84-124				
1,4-Dichlorobenzene	47		"	50.0		94.2	84-124				
1,4-Dioxane	390		"	1050		37.2	10-228				
2-Butanone	45		"	50.0		89.7	58-147				
2-Hexanone	39		"	50.0		77.5	70-139				
4-Methyl-2-pentanone	28		"	50.0		55.4	72-132	Low Bias			
Acetone	32		"	50.0		64.8	36-155				
Acrolein	49		"	50.0		98.6	10-238				
Acrylonitrile	43		"	50.0		86.9	66-141				
Benzene	49		"	50.0		97.7	77-127				
Bromochloromethane	44		"	50.0		87.8	74-129				
Bromodichloromethane	43		"	50.0		85.2	81-124				
Bromoform	50		"	50.0		99.1	80-136				
Bromomethane	46		"	50.0		92.4	32-177				
Carbon disulfide	49		"	50.0		98.7	10-136				
Carbon tetrachloride	48		"	50.0		95.1	66-143				
Chlorobenzene	46		"	50.0		92.8	86-120				
Chloroethane	54		"	50.0		107	51-142				
Chloroform	46		"	50.0		91.6	76-131				
Chloromethane	41		"	50.0		82.8	49-132				
cis-1,2-Dichloroethylene	45		"	50.0		89.2	74-132				
cis-1,3-Dichloropropylene	41		"	50.0		82.1	81-129				
Cyclohexane	43		"	50.0		85.3	70-130				
Dibromochloromethane	45		"	50.0		89.6	10-200				
Dibromomethane	42		"	50.0		83.8	83-124				
Dichlorodifluoromethane	42		"	50.0		83.8	28-158				
Ethyl Benzene	46		"	50.0		92.3	84-125				
Hexachlorobutadiene	43		"	50.0		86.5	83-133				
Isopropylbenzene	47		"	50.0		95.0	81-127				
Methyl acetate	39		"	50.0		78.7	41-143				
Methyl tert-butyl ether (MTBE)	45		"	50.0		89.7	74-131				
Methylcyclohexane	42		"	50.0		84.5	70-130				
Methylene chloride	43		"	50.0		86.1	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
LCS (BK31242-BS1)								Prepared & Analyzed: 11/19/2023			
n-Butylbenzene	46		ug/L	50.0		92.7	80-130				
n-Propylbenzene	47		"	50.0		93.1	74-136				
o-Xylene	47		"	50.0		93.3	83-123				
p- & m- Xylenes	87		"	100		87.0	82-128				
p-Isopropyltoluene	48		"	50.0		95.8	85-125				
sec-Butylbenzene	47		"	50.0		93.6	83-125				
Styrene	43		"	50.0		85.9	86-126	Low Bias			
tert-Butyl alcohol (TBA)	230		"	250		91.9	70-130				
tert-Butylbenzene	47		"	50.0		94.5	80-127				
Tetrachloroethylene	32		"	50.0		63.2	80-129	Low Bias			
Toluene	46		"	50.0		93.0	85-121				
trans-1,2-Dichloroethylene	45		"	50.0		90.8	72-132				
trans-1,3-Dichloropropylene	42		"	50.0		84.5	78-132				
trans-1,4-dichloro-2-butene	45		"	50.0		90.0	75-135				
Trichloroethylene	43		"	50.0		85.7	84-123				
Trichlorofluoromethane	58		"	50.0		115	62-140				
Vinyl Chloride	46		"	50.0		91.5	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.3*		*"*	*50.0*		*94.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.3*		*"*	*50.0*		*96.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.2*		*"*	*50.0*		*98.3*	*76-130*				
LCS Dup (BK31242-BSD1)								Prepared & Analyzed: 11/19/2023			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		94.2	75-129		2.34	30	
1,1,1-Trichloroethane	46		"	50.0		92.1	71-137		0.807	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		96.9	79-129		3.44	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.3	58-146		3.10	30	
1,1,2-Trichloroethane	45		"	50.0		90.0	83-123		1.07	30	
1,1-Dichloroethane	44		"	50.0		87.3	75-130		1.36	30	
1,1-Dichloroethylene	47		"	50.0		93.7	64-137		2.38	30	
1,2,3-Trichlorobenzene	45		"	50.0		90.1	81-140		1.81	30	
1,2,3-Trichloropropane	49		"	50.0		98.2	81-126		6.72	30	
1,2,4-Trichlorobenzene	48		"	50.0		95.7	80-141		1.88	30	
1,2,4-Trimethylbenzene	49		"	50.0		97.7	84-125		0.740	30	
1,2-Dibromo-3-chloropropane	42		"	50.0		84.7	74-142		3.97	30	
1,2-Dibromoethane	47		"	50.0		93.1	86-123		2.26	30	
1,2-Dichlorobenzene	48		"	50.0		96.1	85-122		1.45	30	
1,2-Dichloroethane	46		"	50.0		92.4	71-133		0.0649	30	
1,2-Dichloropropane	43		"	50.0		85.7	81-122		3.97	30	
1,3,5-Trimethylbenzene	50		"	50.0		99.6	82-126		2.50	30	
1,3-Dichlorobenzene	48		"	50.0		95.7	84-124		1.18	30	
1,4-Dichlorobenzene	48		"	50.0		95.8	84-124		1.66	30	
1,4-Dioxane	400		"	1050		38.5	10-228		3.42	30	
2-Butanone	45		"	50.0		90.0	58-147		0.334	30	
2-Hexanone	39		"	50.0		78.2	70-139		0.873	30	
4-Methyl-2-pentanone	29		"	50.0		57.4	72-132	Low Bias	3.54	30	
Acetone	32		"	50.0		63.6	36-155		1.90	30	
Acrolein	50		"	50.0		100	10-238		1.87	30	
Acrylonitrile	44		"	50.0		88.3	66-141		1.62	30	
Benzene	48		"	50.0		96.7	77-127		0.988	30	
Bromochloromethane	43		"	50.0		86.3	74-129		1.79	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
LCS Dup (BK31242-BSD1)								Prepared & Analyzed: 11/19/2023			
Bromodichloromethane	43		ug/L	50.0		86.5	81-124		1.44	30	
Bromoform	50		"	50.0		100	80-136		1.40	30	
Bromomethane	48		"	50.0		96.3	32-177		4.13	30	
Carbon disulfide	48		"	50.0		97.0	10-136		1.78	30	
Carbon tetrachloride	47		"	50.0		93.5	66-143		1.70	30	
Chlorobenzene	48		"	50.0		95.5	86-120		2.83	30	
Chloroethane	54		"	50.0		107	51-142		0.261	30	
Chloroform	45		"	50.0		90.9	76-131		0.789	30	
Chloromethane	41		"	50.0		81.8	49-132		1.19	30	
cis-1,2-Dichloroethylene	44		"	50.0		88.9	74-132		0.337	30	
cis-1,3-Dichloropropylene	42		"	50.0		84.9	81-129		3.35	30	
Cyclohexane	42		"	50.0		84.8	70-130		0.659	30	
Dibromochloromethane	46		"	50.0		91.9	10-200		2.56	30	
Dibromomethane	42		"	50.0		83.2	83-124		0.742	30	
Dichlorodifluoromethane	43		"	50.0		85.1	28-158		1.47	30	
Ethyl Benzene	47		"	50.0		94.5	84-125		2.27	30	
Hexachlorobutadiene	45		"	50.0		89.0	83-133		2.92	30	
Isopropylbenzene	49		"	50.0		97.1	81-127		2.23	30	
Methyl acetate	39		"	50.0		77.8	41-143		1.20	30	
Methyl tert-butyl ether (MTBE)	44		"	50.0		87.9	74-131		2.05	30	
Methylcyclohexane	43		"	50.0		85.8	70-130		1.48	30	
Methylene chloride	42		"	50.0		83.6	57-141		2.99	30	
n-Butylbenzene	47		"	50.0		94.6	80-130		2.05	30	
n-Propylbenzene	48		"	50.0		95.7	74-136		2.78	30	
o-Xylene	46		"	50.0		92.8	83-123		0.602	30	
p- & m- Xylenes	88		"	100		87.6	82-128		0.768	30	
p-Isopropyltoluene	49		"	50.0		97.1	85-125		1.29	30	
sec-Butylbenzene	48		"	50.0		96.3	83-125		2.82	30	
Styrene	43		"	50.0		85.9	86-126	Low Bias	0.00	30	
tert-Butyl alcohol (TBA)	230		"	250		92.4	70-130		0.534	30	
tert-Butylbenzene	48		"	50.0		96.2	80-127		1.85	30	
Tetrachloroethylene	32		"	50.0		64.3	80-129	Low Bias	1.76	30	
Toluene	46		"	50.0		93.0	85-121		0.0215	30	
trans-1,2-Dichloroethylene	45		"	50.0		89.9	72-132		1.04	30	
trans-1,3-Dichloropropylene	43		"	50.0		85.5	78-132		1.11	30	
trans-1,4-dichloro-2-butene	47		"	50.0		93.8	75-135		4.14	30	
Trichloroethylene	44		"	50.0		88.9	84-123		3.69	30	
Trichlorofluoromethane	56		"	50.0		112	62-140		3.28	30	
Vinyl Chloride	46		"	50.0		91.3	52-130		0.197	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.4*		*"*	*50.0*		*94.8*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.8*		*"*	*50.0*		*97.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.5*		*"*	*50.0*		*101*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
Blank (BK31257-BLK1)											Prepared & Analyzed: 11/20/2023
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
Blank (BK31257-BLK1)										Prepared & Analyzed: 11/20/2023	
Methylene chloride	ND	0.010	mg/kg wet								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.8*		*ug/L*	*50.0*		*97.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.1*		*"*	*50.0*		*94.2*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.9*		*"*	*50.0*		*112*	*76-130*				
Blank (BK31257-BLK2)										Prepared & Analyzed: 11/20/2023	
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
Blank (BK31257-BLK2)											Prepared & Analyzed: 11/20/2023
Acrylonitrile	ND	0.50	mg/kg wet								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.1*		*ug/L*	*50.0*		*94.2*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.1*		*"*	*50.0*		*94.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.4*		*"*	*50.0*		*111*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
LCS (BK31257-BS1)								Prepared & Analyzed: 11/20/2023			
1,1,1,2-Tetrachloroethane	42		ug/L	50.0		84.5	75-129				
1,1,1-Trichloroethane	41		"	50.0		82.3	71-137				
1,1,2,2-Tetrachloroethane	45		"	50.0		90.5	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.2	58-146				
1,1,2-Trichloroethane	42		"	50.0		83.6	83-123				
1,1-Dichloroethane	40		"	50.0		79.3	75-130				
1,1-Dichloroethylene	42		"	50.0		84.5	64-137				
1,2,3-Trichlorobenzene	44		"	50.0		87.0	81-140				
1,2,3-Trichloropropane	46		"	50.0		92.5	81-126				
1,2,4-Trichlorobenzene	45		"	50.0		90.9	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		87.4	84-125				
1,2-Dibromo-3-chloropropane	40		"	50.0		79.7	74-142				
1,2-Dibromoethane	45		"	50.0		89.3	86-123				
1,2-Dichlorobenzene	44		"	50.0		87.0	85-122				
1,2-Dichloroethane	44		"	50.0		88.6	71-133				
1,2-Dichloropropane	39		"	50.0		77.6	81-122	Low Bias			
1,3,5-Trimethylbenzene	44		"	50.0		88.7	82-126				
1,3-Dichlorobenzene	43		"	50.0		86.9	84-124				
1,4-Dichlorobenzene	44		"	50.0		87.2	84-124				
1,4-Dioxane	360		"	1050		34.3	10-228				
2-Butanone	42		"	50.0		84.1	58-147				
2-Hexanone	38		"	50.0		75.4	70-139				
4-Methyl-2-pentanone	27		"	50.0		54.5	72-132	Low Bias			
Acetone	31		"	50.0		62.4	36-155				
Acrolein	43		"	50.0		85.6	10-238				
Acrylonitrile	41		"	50.0		81.1	66-141				
Benzene	42		"	50.0		83.2	77-127				
Bromochloromethane	39		"	50.0		77.8	74-129				
Bromodichloromethane	41		"	50.0		81.4	81-124				
Bromoform	48		"	50.0		95.8	80-136				
Bromomethane	26		"	50.0		52.0	32-177				
Carbon disulfide	41		"	50.0		82.3	10-136				
Carbon tetrachloride	43		"	50.0		85.0	66-143				
Chlorobenzene	42		"	50.0		84.8	86-120	Low Bias			
Chloroethane	31		"	50.0		62.0	51-142				
Chloroform	41		"	50.0		82.3	76-131				
Chloromethane	33		"	50.0		66.0	49-132				
cis-1,2-Dichloroethylene	41		"	50.0		81.2	74-132				
cis-1,3-Dichloropropylene	39		"	50.0		77.5	81-129	Low Bias			
Cyclohexane	37		"	50.0		74.1	70-130				
Dibromochloromethane	44		"	50.0		88.1	10-200				
Dibromomethane	41		"	50.0		81.2	83-124	Low Bias			
Dichlorodifluoromethane	30		"	50.0		61.0	28-158				
Ethyl Benzene	41		"	50.0		82.8	84-125	Low Bias			
Hexachlorobutadiene	43		"	50.0		86.8	83-133				
Isopropylbenzene	45		"	50.0		90.5	81-127				
Methyl acetate	38		"	50.0		75.6	41-143				
Methyl tert-butyl ether (MTBE)	42		"	50.0		84.9	74-131				
Methylcyclohexane	39		"	50.0		77.6	70-130				
Methylene chloride	39		"	50.0		77.6	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
LCS (BK31257-BS1)							Prepared & Analyzed: 11/20/2023				
n-Butylbenzene	41		ug/L	50.0		81.4	80-130				
n-Propylbenzene	43		"	50.0		86.2	74-136				
o-Xylene	41		"	50.0		82.4	83-123	Low Bias			
p- & m- Xylenes	75		"	100		74.5	82-128	Low Bias			
p-Isopropyltoluene	43		"	50.0		85.7	85-125				
sec-Butylbenzene	43		"	50.0		85.6	83-125				
Styrene	37		"	50.0		73.8	86-126	Low Bias			
tert-Butyl alcohol (TBA)	220		"	250		87.5	70-130				
tert-Butylbenzene	44		"	50.0		87.7	80-127				
Tetrachloroethylene	30		"	50.0		60.3	80-129	Low Bias			
Toluene	41		"	50.0		82.2	85-121	Low Bias			
trans-1,2-Dichloroethylene	41		"	50.0		82.1	72-132				
trans-1,3-Dichloropropylene	40		"	50.0		79.6	78-132				
trans-1,4-dichloro-2-butene	44		"	50.0		88.4	75-135				
Trichloroethylene	41		"	50.0		81.5	84-123	Low Bias			
Trichlorofluoromethane	37		"	50.0		74.7	62-140				
Vinyl Chloride	33		"	50.0		65.1	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.5*		*"*	*50.0*		*97.0*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.7*		*"*	*50.0*		*95.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*54.8*		*"*	*50.0*		*110*	*76-130*				
LCS Dup (BK31257-BSD1)							Prepared & Analyzed: 11/20/2023				
1,1,1,2-Tetrachloroethane	44		ug/L	50.0		88.1	75-129		4.13	30	
1,1,1-Trichloroethane	43		"	50.0		87.0	71-137		5.55	30	
1,1,2,2-Tetrachloroethane	52		"	50.0		103	79-129		13.3	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.9	58-146		3.01	30	
1,1,2-Trichloroethane	46		"	50.0		91.0	83-123		8.43	30	
1,1-Dichloroethane	42		"	50.0		84.2	75-130		6.04	30	
1,1-Dichloroethylene	44		"	50.0		88.2	64-137		4.28	30	
1,2,3-Trichlorobenzene	47		"	50.0		94.0	81-140		7.69	30	
1,2,3-Trichloropropane	55		"	50.0		110	81-126		17.5	30	
1,2,4-Trichlorobenzene	48		"	50.0		96.0	80-141		5.43	30	
1,2,4-Trimethylbenzene	45		"	50.0		89.5	84-125		2.33	30	
1,2-Dibromo-3-chloropropane	51		"	50.0		102	74-142		24.4	30	
1,2-Dibromoethane	50		"	50.0		99.5	86-123		10.8	30	
1,2-Dichlorobenzene	46		"	50.0		91.3	85-122		4.80	30	
1,2-Dichloroethane	49		"	50.0		98.3	71-133		10.4	30	
1,2-Dichloropropane	40		"	50.0		79.8	81-122	Low Bias	2.82	30	
1,3,5-Trimethylbenzene	45		"	50.0		89.9	82-126		1.34	30	
1,3-Dichlorobenzene	45		"	50.0		89.1	84-124		2.50	30	
1,4-Dichlorobenzene	45		"	50.0		89.7	84-124		2.78	30	
1,4-Dioxane	560		"	1050		53.1	10-228		43.0	30	Non-dir.
2-Butanone	57		"	50.0		115	58-147		30.9	30	Non-dir.
2-Hexanone	49		"	50.0		97.6	70-139		25.7	30	
4-Methyl-2-pentanone	34		"	50.0		67.2	72-132	Low Bias	21.0	30	
Acetone	42		"	50.0		83.6	36-155		29.0	30	
Acrolein	55		"	50.0		111	10-238		25.7	30	
Acrylonitrile	55		"	50.0		109	66-141		29.7	30	
Benzene	44		"	50.0		88.9	77-127		6.58	30	
Bromochloromethane	44		"	50.0		87.1	74-129		11.2	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
LCS Dup (BK31257-BSD1)								Prepared & Analyzed: 11/20/2023			
Bromodichloromethane	41		ug/L	50.0		82.5	81-124		1.32	30	
Bromoform	55		"	50.0		110	80-136		13.6	30	
Bromomethane	32		"	50.0		64.2	32-177		20.9	30	
Carbon disulfide	44		"	50.0		87.3	10-136		5.92	30	
Carbon tetrachloride	45		"	50.0		90.2	66-143		5.93	30	
Chlorobenzene	44		"	50.0		87.5	86-120		3.11	30	
Chloroethane	35		"	50.0		70.1	51-142		12.2	30	
Chloroform	44		"	50.0		87.7	76-131		6.38	30	
Chloromethane	39		"	50.0		77.3	49-132		15.8	30	
cis-1,2-Dichloroethylene	43		"	50.0		85.5	74-132		5.16	30	
cis-1,3-Dichloropropylene	40		"	50.0		79.9	81-129	Low Bias	3.13	30	
Cyclohexane	39		"	50.0		78.2	70-130		5.36	30	
Dibromochloromethane	47		"	50.0		94.3	10-200		6.77	30	
Dibromomethane	43		"	50.0		85.8	83-124		5.46	30	
Dichlorodifluoromethane	34		"	50.0		68.0	28-158		10.9	30	
Ethyl Benzene	43		"	50.0		85.5	84-125		3.23	30	
Hexachlorobutadiene	44		"	50.0		88.7	83-133		2.16	30	
Isopropylbenzene	45		"	50.0		89.4	81-127		1.25	30	
Methyl acetate	50		"	50.0		99.6	41-143		27.4	30	
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.5	74-131		11.7	30	
Methylcyclohexane	39		"	50.0		77.1	70-130		0.698	30	
Methylene chloride	42		"	50.0		84.6	57-141		8.61	30	
n-Butylbenzene	42		"	50.0		83.0	80-130		1.90	30	
n-Propylbenzene	43		"	50.0		86.2	74-136		0.00	30	
o-Xylene	44		"	50.0		87.1	83-123		5.57	30	
p- & m- Xylenes	77		"	100		76.6	82-128	Low Bias	2.80	30	
p-Isopropyltoluene	43		"	50.0		86.7	85-125		1.14	30	
sec-Butylbenzene	43		"	50.0		86.8	83-125		1.42	30	
Styrene	39		"	50.0		77.2	86-126	Low Bias	4.50	30	
tert-Butyl alcohol (TBA)	310		"	250		122	70-130		33.2	30	Non-dir.
tert-Butylbenzene	44		"	50.0		88.7	80-127		1.20	30	
Tetrachloroethylene	31		"	50.0		61.3	80-129	Low Bias	1.58	30	
Toluene	42		"	50.0		83.4	85-121	Low Bias	1.40	30	
trans-1,2-Dichloroethylene	43		"	50.0		85.7	72-132		4.20	30	
trans-1,3-Dichloropropylene	42		"	50.0		84.0	78-132		5.33	30	
trans-1,4-dichloro-2-butene	51		"	50.0		102	75-135		14.3	30	
Trichloroethylene	41		"	50.0		82.1	84-123	Low Bias	0.758	30	
Trichlorofluoromethane	40		"	50.0		80.9	62-140		8.05	30	
Vinyl Chloride	37		"	50.0		73.2	52-130		11.8	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.2*		*"*	*50.0*		*92.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.8*		*"*	*50.0*		*106*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
Blank (BK31296-BLK1)											Prepared & Analyzed: 11/20/2023
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.37	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
Blank (BK31296-BLK1)								Prepared & Analyzed: 11/20/2023			
Methylene chloride	ND	2.0	ug/L								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.0*		*"*	*10.0*		*110*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BK31296-BS1)								Prepared & Analyzed: 11/20/2023			
1,1,1,2-Tetrachloroethane	8.8		ug/L	10.0		88.1	82-126				
1,1,1-Trichloroethane	10		"	10.0		103	78-136				
1,1,2,2-Tetrachloroethane	9.6		"	10.0		96.5	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0		95.7	54-165				
1,1,2-Trichloroethane	9.1		"	10.0		91.0	82-123				
1,1-Dichloroethane	9.2		"	10.0		92.2	82-129				
1,1-Dichloroethylene	9.6		"	10.0		95.9	68-138				
1,2,3-Trichlorobenzene	8.0		"	10.0		79.6	40-130				
1,2,3-Trichloropropane	8.9		"	10.0		89.2	77-128				
1,2,4-Trichlorobenzene	7.9		"	10.0		79.1	65-137				
1,2,4-Trimethylbenzene	9.4		"	10.0		93.8	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		103	45-147				
1,2-Dibromoethane	9.2		"	10.0		92.1	83-124				
1,2-Dichlorobenzene	8.9		"	10.0		89.2	79-123				
1,2-Dichloroethane	11		"	10.0		111	73-132				
1,2-Dichloropropane	8.8		"	10.0		88.5	78-126				
1,3,5-Trimethylbenzene	9.3		"	10.0		93.2	80-131				
1,3-Dichlorobenzene	8.7		"	10.0		86.8	86-130				
1,4-Dichlorobenzene	8.4		"	10.0		83.7	85-130	Low Bias			
1,4-Dioxane	73		"	210		34.6	10-349				
2-Butanone	9.3		"	10.0		92.9	49-152				
2-Hexanone	7.5		"	10.0		75.3	51-146				
4-Methyl-2-pentanone	8.4		"	10.0		84.2	57-145				
Acetone	4.9		"	10.0		49.0	14-150				
Acrolein	7.1		"	10.0		71.3	10-153				
Acrylonitrile	9.2		"	10.0		91.7	51-150				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
LCS (BK31296-BS1)								Prepared & Analyzed: 11/20/2023			
Benzene	10		ug/L	10.0		103	85-126				
Bromochloromethane	9.8		"	10.0		97.7	77-128				
Bromodichloromethane	9.3		"	10.0		93.2	79-128				
Bromoform	8.1		"	10.0		81.0	78-133				
Bromomethane	4.6		"	10.0		46.0	43-168				
Carbon disulfide	9.4		"	10.0		93.8	68-146				
Carbon tetrachloride	10		"	10.0		101	77-141				
Chlorobenzene	9.6		"	10.0		96.1	88-120				
Chloroethane	13		"	10.0		128	65-136				
Chloroform	9.7		"	10.0		97.4	82-128				
Chloromethane	10		"	10.0		100	43-155				
cis-1,2-Dichloroethylene	9.9		"	10.0		98.9	83-129				
cis-1,3-Dichloropropylene	8.8		"	10.0		88.5	80-131				
Cyclohexane	9.7		"	10.0		97.0	63-149				
Dibromochloromethane	9.2		"	10.0		92.5	80-130				
Dibromomethane	9.4		"	10.0		93.7	72-134				
Dichlorodifluoromethane	13		"	10.0		135	44-144				
Ethyl Benzene	10		"	10.0		99.8	80-131				
Hexachlorobutadiene	7.8		"	10.0		78.3	67-146				
Isopropylbenzene	8.9		"	10.0		89.2	76-140				
Methyl acetate	8.2		"	10.0		82.2	51-139				
Methyl tert-butyl ether (MTBE)	9.2		"	10.0		91.5	76-135				
Methylcyclohexane	8.9		"	10.0		89.1	72-143				
Methylene chloride	9.7		"	10.0		97.1	55-137				
n-Butylbenzene	8.3		"	10.0		83.4	79-132				
n-Propylbenzene	8.9		"	10.0		89.2	78-133				
o-Xylene	9.8		"	10.0		98.2	78-130				
p- & m- Xylenes	21		"	20.0		103	77-133				
p-Isopropyltoluene	9.1		"	10.0		91.3	81-136				
sec-Butylbenzene	8.9		"	10.0		89.2	79-137				
Styrene	9.9		"	10.0		99.3	67-132				
tert-Butyl alcohol (TBA)	48		"	50.0		96.6	25-162				
tert-Butylbenzene	8.4		"	10.0		84.5	77-138				
Tetrachloroethylene	4.6		"	10.0		46.3	82-131	Low Bias			
Toluene	10		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	9.6		"	10.0		96.1	80-132				
trans-1,3-Dichloropropylene	9.8		"	10.0		97.5	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		100	63-141				
Trichloroethylene	8.8		"	10.0		87.5	82-128				
Trichlorofluoromethane	15		"	10.0		155	67-139	High Bias			
Vinyl Chloride	12		"	10.0		118	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.75*		*"*	*10.0*		*97.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.67*		*"*	*10.0*		*96.7*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
LCS Dup (BK31296-BSD1)								Prepared & Analyzed: 11/20/2023			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		88.8	82-126		0.791	30	
1,1,1-Trichloroethane	10		"	10.0		102	78-136		1.27	30	
1,1,2,2-Tetrachloroethane	9.9		"	10.0		99.3	76-129		2.86	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.7		"	10.0		97.4	54-165		1.76	30	
1,1,2-Trichloroethane	9.3		"	10.0		93.2	82-123		2.39	30	
1,1-Dichloroethane	9.5		"	10.0		95.0	82-129		2.99	30	
1,1-Dichloroethylene	9.6		"	10.0		95.9	68-138		0.00	30	
1,2,3-Trichlorobenzene	8.1		"	10.0		80.9	40-130		1.62	30	
1,2,3-Trichloropropane	9.3		"	10.0		92.7	77-128		3.85	30	
1,2,4-Trichlorobenzene	8.2		"	10.0		81.6	65-137		3.11	30	
1,2,4-Trimethylbenzene	9.5		"	10.0		95.0	82-132		1.27	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		102	45-147		0.782	30	
1,2-Dibromoethane	9.5		"	10.0		95.4	83-124		3.52	30	
1,2-Dichlorobenzene	9.0		"	10.0		89.9	79-123		0.782	30	
1,2-Dichloroethane	12		"	10.0		115	73-132		3.98	30	
1,2-Dichloropropane	9.1		"	10.0		90.7	78-126		2.46	30	
1,3,5-Trimethylbenzene	9.3		"	10.0		93.1	80-131		0.107	30	
1,3-Dichlorobenzene	8.7		"	10.0		87.1	86-130		0.345	30	
1,4-Dichlorobenzene	8.4		"	10.0		84.3	85-130	Low Bias	0.714	30	
1,4-Dioxane	78		"	210		37.1	10-349		7.16	30	
2-Butanone	9.8		"	10.0		97.6	49-152		4.93	30	
2-Hexanone	7.8		"	10.0		78.0	51-146		3.52	30	
4-Methyl-2-pentanone	8.8		"	10.0		88.1	57-145		4.53	30	
Acetone	5.0		"	10.0		49.5	14-150		1.02	30	
Acrolein	7.3		"	10.0		73.4	10-153		2.90	30	
Acrylonitrile	9.5		"	10.0		94.9	51-150		3.43	30	
Benzene	10		"	10.0		103	85-126		0.291	30	
Bromochloromethane	9.9		"	10.0		99.0	77-128		1.32	30	
Bromodichloromethane	9.6		"	10.0		96.3	79-128		3.27	30	
Bromoform	8.4		"	10.0		84.5	78-133		4.23	30	
Bromomethane	5.1		"	10.0		50.8	43-168		9.92	30	
Carbon disulfide	9.3		"	10.0		93.0	68-146		0.857	30	
Carbon tetrachloride	10		"	10.0		101	77-141		0.199	30	
Chlorobenzene	9.6		"	10.0		95.9	88-120		0.208	30	
Chloroethane	12		"	10.0		122	65-136		5.28	30	
Chloroform	9.9		"	10.0		98.9	82-128		1.53	30	
Chloromethane	9.1		"	10.0		91.3	43-155		9.30	30	
cis-1,2-Dichloroethylene	10		"	10.0		100	83-129		1.21	30	
cis-1,3-Dichloropropylene	9.2		"	10.0		92.1	80-131		3.99	30	
Cyclohexane	9.6		"	10.0		96.0	63-149		1.04	30	
Dibromochloromethane	9.5		"	10.0		94.7	80-130		2.35	30	
Dibromomethane	9.7		"	10.0		96.8	72-134		3.25	30	
Dichlorodifluoromethane	13		"	10.0		130	44-144		3.63	30	
Ethyl Benzene	9.9		"	10.0		99.0	80-131		0.805	30	
Hexachlorobutadiene	8.0		"	10.0		79.5	67-146		1.52	30	
Isopropylbenzene	8.9		"	10.0		89.0	76-140		0.224	30	
Methyl acetate	8.5		"	10.0		85.1	51-139		3.47	30	
Methyl tert-butyl ether (MTBE)	9.8		"	10.0		97.8	76-135		6.66	30	
Methylcyclohexane	9.1		"	10.0		90.7	72-143		1.78	30	
Methylene chloride	9.9		"	10.0		98.9	55-137		1.84	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
LCS Dup (BK31296-BSD1)								Prepared & Analyzed: 11/20/2023			
n-Butylbenzene	8.6		ug/L	10.0		85.7	79-132		2.72	30	
n-Propylbenzene	8.9		"	10.0		89.2	78-133		0.00	30	
o-Xylene	9.8		"	10.0		97.9	78-130		0.306	30	
p- & m- Xylenes	21		"	20.0		103	77-133		0.146	30	
p-Isopropyltoluene	9.1		"	10.0		91.4	81-136		0.109	30	
sec-Butylbenzene	9.0		"	10.0		90.4	79-137		1.34	30	
Styrene	9.9		"	10.0		98.8	67-132		0.505	30	
tert-Butyl alcohol (TBA)	50		"	50.0		99.2	25-162		2.66	30	
tert-Butylbenzene	8.6		"	10.0		85.8	77-138		1.53	30	
Tetrachloroethylene	4.6		"	10.0		45.9	82-131	Low Bias	0.868	30	
Toluene	10		"	10.0		99.7	80-127		0.500	30	
trans-1,2-Dichloroethylene	9.7		"	10.0		96.8	80-132		0.726	30	
trans-1,3-Dichloropropylene	9.9		"	10.0		98.7	78-131		1.22	30	
trans-1,4-dichloro-2-butene	9.9		"	10.0		98.9	63-141		1.21	30	
Trichloroethylene	8.9		"	10.0		88.9	82-128		1.59	30	
Trichlorofluoromethane	15		"	10.0		147	67-139	High Bias	4.96	30	
Vinyl Chloride	11		"	10.0		109	58-145		8.00	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.0*		*"*	*10.0*		*110*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.84*		*"*	*10.0*		*98.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.63*		*"*	*10.0*		*96.3*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Blank (BK31284-BLK1)											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Prepared: 11/20/2023 Analyzed: 11/21/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Blank (BK31284-BLK1)											
Prepared: 11/20/2023 Analyzed: 11/21/2023											
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*0.929*		"	*1.66*		*55.9*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.906*		"	*1.66*		*54.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.473*		"	*0.831*		*56.9*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.448*		"	*0.831*		*53.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.802*		"	*1.66*		*48.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.492*		"	*0.831*		*59.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
LCS (BK31284-BS1)									Prepared: 11/20/2023 Analyzed: 11/21/2023		
1,1-Biphenyl	0.555	0.0416	mg/kg wet	0.831		66.8	18-111				
1,2,4,5-Tetrachlorobenzene	0.533	0.0830	"	0.831		64.2	21-131				
1,2,4-Trichlorobenzene	0.535	0.0416	"	0.831		64.4	10-140				
1,2-Dichlorobenzene	0.506	0.0416	"	0.831		61.0	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.491	0.0416	"	0.831		59.1	17-137				
1,3-Dichlorobenzene	0.504	0.0416	"	0.831		60.6	33-110				
1,4-Dichlorobenzene	0.489	0.0416	"	0.831		58.8	32-104				
2,3,4,6-Tetrachlorophenol	0.495	0.0830	"	0.831		59.6	30-130				
2,4,5-Trichlorophenol	0.496	0.0416	"	0.831		59.7	27-118				
2,4,6-Trichlorophenol	0.524	0.0416	"	0.831		63.0	31-120				
2,4-Dichlorophenol	0.570	0.0416	"	0.831		68.7	20-127				
2,4-Dimethylphenol	0.530	0.0416	"	0.831		63.8	14-132				
2,4-Dinitrophenol	0.202	0.0830	"	0.831		24.4	10-171				
2,4-Dinitrotoluene	0.594	0.0416	"	0.831		71.6	34-131				
2,6-Dinitrotoluene	0.571	0.0416	"	0.831		68.8	31-128				
2-Chloronaphthalene	0.542	0.0416	"	0.831		65.2	31-117				
2-Chlorophenol	0.543	0.0416	"	0.831		65.4	33-113				
2-Methylnaphthalene	0.540	0.0416	"	0.831		65.0	12-138				
2-Methylphenol	0.551	0.0416	"	0.831		66.4	10-136				
2-Nitroaniline	0.566	0.0830	"	0.831		68.1	27-132				
2-Nitrophenol	0.577	0.0416	"	0.831		69.5	17-129				
3- & 4-Methylphenols	0.501	0.0416	"	0.831		60.4	29-103				
3,3-Dichlorobenzidine	0.376	0.0416	"	0.831		45.3	22-149				
3-Nitroaniline	0.417	0.0830	"	0.831		50.2	20-133				
4,6-Dinitro-2-methylphenol	0.506	0.0830	"	0.831		61.0	10-143				
4-Bromophenyl phenyl ether	0.516	0.0416	"	0.831		62.1	29-120				
4-Chloro-3-methylphenol	0.614	0.0416	"	0.831		74.0	24-129				
4-Chloroaniline	0.348	0.0416	"	0.831		41.9	10-132				
4-Chlorophenyl phenyl ether	0.561	0.0416	"	0.831		67.6	27-124				
4-Nitroaniline	0.473	0.0830	"	0.831		57.0	16-128				
4-Nitrophenol	0.434	0.0830	"	0.831		52.2	10-141				
Acenaphthene	0.521	0.0416	"	0.831		62.7	30-121				
Acenaphthylene	0.518	0.0416	"	0.831		62.3	30-115				
Acetophenone	0.528	0.0416	"	0.831		63.6	20-112				
Aniline	0.328	0.166	"	0.831		39.5	10-119				
Anthracene	0.546	0.0416	"	0.831		65.7	34-118				
Atrazine	0.591	0.0416	"	0.831		71.1	26-112				
Benzaldehyde	0.444	0.0416	"	0.831		53.5	21-100				
Benzo(a)anthracene	0.581	0.0416	"	0.831		70.0	32-122				
Benzo(a)pyrene	0.572	0.0416	"	0.831		68.9	29-133				
Benzo(b)fluoranthene	0.595	0.0416	"	0.831		71.7	25-133				
Benzo(g,h,i)perylene	0.620	0.0416	"	0.831		74.7	10-143				
Benzo(k)fluoranthene	0.595	0.0416	"	0.831		71.6	25-128				
Benzoic acid	0.107	0.0416	"	0.831		12.9	10-140				
Benzyl alcohol	0.532	0.0416	"	0.831		64.0	30-115				
Benzyl butyl phthalate	0.594	0.0416	"	0.831		71.5	26-126				
Bis(2-chloroethoxy)methane	0.535	0.0416	"	0.831		64.4	19-132				
Bis(2-chloroethyl)ether	0.500	0.0416	"	0.831		60.2	19-125				
Bis(2-chloroisopropyl)ether	0.551	0.0416	"	0.831		66.3	20-135				
Bis(2-ethylhexyl)phthalate	0.614	0.0416	"	0.831		73.9	10-155				
Caprolactam	0.647	0.0830	"	0.831		77.9	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
LCS (BK31284-BS1)								Prepared: 11/20/2023 Analyzed: 11/21/2023			
Carbazole	0.560	0.0416	mg/kg wet	0.831		67.5	35-123				
Chrysene	0.554	0.0416	"	0.831		66.7	32-123				
Dibenzo(a,h)anthracene	0.627	0.0416	"	0.831		75.5	10-136				
Dibenzofuran	0.549	0.0416	"	0.831		66.1	29-121				
Diethyl phthalate	0.582	0.0416	"	0.831		70.1	34-116				
Dimethyl phthalate	0.573	0.0416	"	0.831		69.0	35-124				
Di-n-butyl phthalate	0.592	0.0416	"	0.831		71.2	31-116				
Di-n-octyl phthalate	0.607	0.0416	"	0.831		73.0	26-136				
Diphenylamine	0.604	0.0830	"	0.831		72.7	40-140				
Fluoranthene	0.567	0.0416	"	0.831		68.3	33-122				
Fluorene	0.549	0.0416	"	0.831		66.0	29-123				
Hexachlorobenzene	0.589	0.0416	"	0.831		71.0	21-124				
Hexachlorobutadiene	0.536	0.0416	"	0.831		64.5	10-149				
Hexachlorocyclopentadiene	ND	0.0416	"	0.831			10-129	Low Bias			
Hexachloroethane	0.501	0.0416	"	0.831		60.3	28-108				
Indeno(1,2,3-cd)pyrene	0.629	0.0416	"	0.831		75.7	10-135				
Isophorone	0.564	0.0416	"	0.831		67.9	20-132				
Naphthalene	0.528	0.0416	"	0.831		63.6	23-124				
Nitrobenzene	0.569	0.0416	"	0.831		68.5	13-132				
N-Nitrosodimethylamine	0.523	0.0416	"	0.831		62.9	11-129				
N-nitroso-di-n-propylamine	0.529	0.0416	"	0.831		63.7	24-119				
N-Nitrosodiphenylamine	0.595	0.0416	"	0.831		71.7	22-152				
Pentachlorophenol	0.217	0.0416	"	0.831		26.1	10-139				
Phenanthrene	0.552	0.0416	"	0.831		66.4	33-123				
Phenol	0.597	0.0416	"	0.831		71.8	23-115				
Pyrene	0.563	0.0416	"	0.831		67.8	32-130				
Surrogate: SURR: 2-Fluorophenol	*1.10*		*"*	*1.66*		*66.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.14*		*"*	*1.66*		*68.4*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.587*		*"*	*0.831*		*70.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.549*		*"*	*0.831*		*66.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.07*		*"*	*1.66*		*64.5*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.596*		*"*	*0.831*		*71.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike (BK31284-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
1,1-Biphenyl	0.882	0.0888	mg/kg dry	0.887	ND	99.4	10-130				
1,2,4,5-Tetrachlorobenzene	0.806	0.177	"	0.887	ND	90.8	10-133				
1,2,4-Trichlorobenzene	0.874	0.0888	"	0.887	ND	98.5	10-127				
1,2-Dichlorobenzene	0.684	0.0888	"	0.887	ND	77.0	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.780	0.0888	"	0.887	ND	87.9	10-144				
1,3-Dichlorobenzene	0.718	0.0888	"	0.887	ND	81.0	11-111				
1,4-Dichlorobenzene	0.708	0.0888	"	0.887	ND	79.8	10-106				
2,3,4,6-Tetrachlorophenol	ND	0.177	"	0.887	ND		30-130	Low Bias			
2,4,5-Trichlorophenol	ND	0.0888	"	0.887	ND		10-127	Low Bias			
2,4,6-Trichlorophenol	ND	0.0888	"	0.887	ND		10-132	Low Bias			
2,4-Dichlorophenol	ND	0.0888	"	0.887	ND		10-128	Low Bias			
2,4-Dimethylphenol	0.322	0.0888	"	0.887	ND	36.2	10-137				
2,4-Dinitrophenol	ND	0.177	"	0.887	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.990	0.0888	"	0.887	ND	112	16-135				
2,6-Dinitrotoluene	0.955	0.0888	"	0.887	ND	108	18-131				
2-Chloronaphthalene	0.839	0.0888	"	0.887	ND	94.6	10-129				
2-Chlorophenol	ND	0.0888	"	0.887	ND		15-116	Low Bias			
2-Methylnaphthalene	0.833	0.0888	"	0.887	ND	93.8	10-147				
2-Methylphenol	0.207	0.0888	"	0.887	ND	23.4	10-136				
2-Nitroaniline	0.952	0.177	"	0.887	ND	107	10-137				
2-Nitrophenol	0.0845	0.0888	"	0.887	ND	9.52	10-129	Low Bias			
3- & 4-Methylphenols	0.101	0.0888	"	0.887	ND	11.4	10-123				
3,3-Dichlorobenzidine	0.637	0.0888	"	0.887	ND	71.8	10-155				
3-Nitroaniline	0.794	0.177	"	0.887	ND	89.5	12-133				
4,6-Dinitro-2-methylphenol	ND	0.177	"	0.887	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	0.864	0.0888	"	0.887	ND	97.4	14-128				
4-Chloro-3-methylphenol	ND	0.0888	"	0.887	ND		10-134	Low Bias			
4-Chloroaniline	0.443	0.0888	"	0.887	ND	49.9	10-145				
4-Chlorophenyl phenyl ether	0.806	0.0888	"	0.887	ND	90.8	14-130				
4-Nitroaniline	0.876	0.177	"	0.887	ND	98.7	10-147				
4-Nitrophenol	ND	0.177	"	0.887	ND		10-137	Low Bias			
Acenaphthene	0.859	0.0888	"	0.887	ND	96.8	10-146				
Acenaphthylene	0.791	0.0888	"	0.887	ND	89.2	10-134				
Acetophenone	0.735	0.0888	"	0.887	ND	82.9	10-116				
Aniline	0.356	0.356	"	0.887	ND	40.1	10-123				
Anthracene	0.903	0.0888	"	0.887	ND	102	10-142				
Atrazine	0.956	0.0888	"	0.887	ND	108	19-115				
Benzaldehyde	0.514	0.0888	"	0.887	ND	57.9	10-125				
Benzo(a)anthracene	1.03	0.0888	"	0.887	0.0909	106	10-158				
Benzo(a)pyrene	1.14	0.0888	"	0.887	0.0994	117	10-180				
Benzo(b)fluoranthene	1.12	0.0888	"	0.887	0.118	113	10-200				
Benzo(g,h,i)perylene	1.13	0.0888	"	0.887	0.0667	120	10-138				
Benzo(k)fluoranthene	0.999	0.0888	"	0.887	ND	113	10-197				
Benzoic acid	ND	0.0888	"	0.887	ND		10-166	Low Bias			
Benzyl alcohol	0.780	0.0888	"	0.887	ND	87.9	12-124				
Benzyl butyl phthalate	1.15	0.0888	"	0.887	ND	129	10-154				
Bis(2-chloroethoxy)methane	0.827	0.0888	"	0.887	ND	93.2	10-132				
Bis(2-chloroethyl)ether	0.710	0.0888	"	0.887	ND	80.0	10-119				
Bis(2-chloroisopropyl)ether	0.687	0.0888	"	0.887	ND	77.4	10-139				
Bis(2-ethylhexyl)phthalate	1.03	0.0888	"	0.887	ND	116	10-167				
Caprolactam	0.987	0.177	"	0.887	ND	111	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike (BK31284-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
Carbazole	0.908	0.0888	mg/kg dry	0.887	ND	102	10-167				
Chrysene	0.958	0.0888	"	0.887	0.0845	98.5	10-156				
Dibenzo(a,h)anthracene	1.16	0.0888	"	0.887	ND	131	10-137				
Dibenzofuran	0.863	0.0888	"	0.887	ND	97.3	10-147				
Diethyl phthalate	0.792	0.0888	"	0.887	ND	89.3	20-120				
Dimethyl phthalate	0.826	0.0888	"	0.887	ND	93.1	18-131				
Di-n-butyl phthalate	0.918	0.0888	"	0.887	ND	104	10-137				
Di-n-octyl phthalate	1.20	0.0888	"	0.887	ND	135	10-180				
Diphenylamine	1.07	0.177	"	0.887	ND	120	40-140				
Fluoranthene	1.14	0.0888	"	0.887	0.185	108	10-160				
Fluorene	0.867	0.0888	"	0.887	ND	97.7	10-157				
Hexachlorobenzene	0.883	0.0888	"	0.887	ND	99.5	10-137				
Hexachlorobutadiene	0.755	0.0888	"	0.887	ND	85.1	10-132				
Hexachlorocyclopentadiene	0.177	0.0888	"	0.887	ND	20.0	10-106				
Hexachloroethane	0.646	0.0888	"	0.887	ND	72.8	10-110				
Indeno(1,2,3-cd)pyrene	1.30	0.0888	"	0.887	0.0866	136	10-144				
Isophorone	0.801	0.0888	"	0.887	ND	90.3	10-132				
Naphthalene	0.809	0.0888	"	0.887	ND	91.2	10-141				
Nitrobenzene	0.775	0.0888	"	0.887	ND	87.4	10-131				
N-Nitrosodimethylamine	0.675	0.0888	"	0.887	ND	76.1	10-126				
N-nitroso-di-n-propylamine	0.716	0.0888	"	0.887	ND	80.7	10-125				
N-Nitrosodiphenylamine	1.00	0.0888	"	0.887	ND	113	10-177				
Pentachlorophenol	ND	0.0888	"	0.887	ND		10-153	Low Bias			
Phenanthrene	1.06	0.0888	"	0.887	0.172	99.8	10-148				
Phenol	0.0497	0.0888	"	0.887	ND	5.60	10-126	Low Bias			
Pyrene	1.07	0.0888	"	0.887	0.163	102	10-165				
Surrogate: SURR: 2-Fluorophenol	*0.00568*		"	*1.77*		*0.320*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.0887*		"	*1.77*		*5.00*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.774*		"	*0.887*		*87.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.827*		"	*0.887*		*93.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		"	*1.77*			*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.849*		"	*0.887*		*95.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike Dup (BK31284-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)								Prepared: 11/20/2023 Analyzed: 11/21/2023		
1,1-Biphenyl	0.612	0.0894	mg/kg dry	0.893	ND	68.5	10-130		36.2	30	Non-dir.
1,2,4,5-Tetrachlorobenzene	0.587	0.179	"	0.893	ND	65.8	10-133		31.3	30	Non-dir.
1,2,4-Trichlorobenzene	0.642	0.0894	"	0.893	ND	71.9	10-127		30.5	30	Non-dir.
1,2-Dichlorobenzene	0.541	0.0894	"	0.893	ND	60.6	14-111		23.3	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.574	0.0894	"	0.893	ND	64.3	10-144		30.4	30	Non-dir.
1,3-Dichlorobenzene	0.550	0.0894	"	0.893	ND	61.6	11-111		26.5	30	
1,4-Dichlorobenzene	0.543	0.0894	"	0.893	ND	60.8	10-106		26.3	30	
2,3,4,6-Tetrachlorophenol	ND	0.179	"	0.893	ND		30-130	Low Bias		30	
2,4,5-Trichlorophenol	ND	0.0894	"	0.893	ND		10-127	Low Bias		30	
2,4,6-Trichlorophenol	ND	0.0894	"	0.893	ND		10-132	Low Bias		30	
2,4-Dichlorophenol	ND	0.0894	"	0.893	ND		10-128	Low Bias		30	
2,4-Dimethylphenol	0.286	0.0894	"	0.893	ND	32.0	10-137		11.8	30	
2,4-Dinitrophenol	ND	0.179	"	0.893	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.684	0.0894	"	0.893	ND	76.6	16-135		36.6	30	Non-dir.
2,6-Dinitrotoluene	0.700	0.0894	"	0.893	ND	78.4	18-131		30.8	30	Non-dir.
2-Chloronaphthalene	0.600	0.0894	"	0.893	ND	67.2	10-129		33.2	30	Non-dir.
2-Chlorophenol	ND	0.0894	"	0.893	ND		15-116	Low Bias		30	
2-Methylnaphthalene	0.664	0.0894	"	0.893	ND	74.4	10-147		22.5	30	
2-Methylphenol	0.191	0.0894	"	0.893	ND	21.4	10-136		7.92	30	
2-Nitroaniline	0.694	0.179	"	0.893	ND	77.8	10-137		31.3	30	Non-dir.
2-Nitrophenol	ND	0.0894	"	0.893	ND		10-129	Low Bias		30	
3- & 4-Methylphenols	0.0993	0.0894	"	0.893	ND	11.1	10-123		1.48	30	
3,3-Dichlorobenzidine	0.452	0.0894	"	0.893	ND	50.6	10-155		34.0	30	Non-dir.
3-Nitroaniline	0.569	0.179	"	0.893	ND	63.7	12-133		33.1	30	Non-dir.
4,6-Dinitro-2-methylphenol	ND	0.179	"	0.893	ND		10-155	Low Bias		30	
4-Bromophenyl phenyl ether	0.634	0.0894	"	0.893	ND	71.0	14-128		30.7	30	Non-dir.
4-Chloro-3-methylphenol	ND	0.0894	"	0.893	ND		10-134	Low Bias		30	
4-Chloroaniline	0.365	0.0894	"	0.893	ND	40.9	10-145		19.3	30	
4-Chlorophenyl phenyl ether	0.620	0.0894	"	0.893	ND	69.4	14-130		26.0	30	
4-Nitroaniline	0.622	0.179	"	0.893	ND	69.7	10-147		33.9	30	Non-dir.
4-Nitrophenol	ND	0.179	"	0.893	ND		10-137	Low Bias		30	
Acenaphthene	0.595	0.0894	"	0.893	ND	66.6	10-146		36.3	30	Non-dir.
Acenaphthylene	0.573	0.0894	"	0.893	ND	64.2	10-134		32.0	30	Non-dir.
Acetophenone	0.573	0.0894	"	0.893	ND	64.2	10-116		24.8	30	
Aniline	0.251	0.358	"	0.893	ND	28.2	10-123		34.3	30	Non-dir.
Anthracene	0.672	0.0894	"	0.893	ND	75.3	10-142		29.3	30	
Atrazine	0.713	0.0894	"	0.893	ND	79.8	19-115		29.1	30	
Benzaldehyde	0.424	0.0894	"	0.893	ND	47.5	10-125		19.1	30	
Benzo(a)anthracene	0.768	0.0894	"	0.893	0.0909	75.8	10-158		29.3	30	
Benzo(a)pyrene	0.829	0.0894	"	0.893	0.0994	81.7	10-180		31.7	30	Non-dir.
Benzo(b)fluoranthene	0.819	0.0894	"	0.893	0.118	78.6	10-200		31.2	30	Non-dir.
Benzo(g,h,i)perylene	0.839	0.0894	"	0.893	0.0667	86.4	10-138		29.8	30	
Benzo(k)fluoranthene	0.740	0.0894	"	0.893	ND	82.9	10-197		29.7	30	
Benzoic acid	2.43	0.0894	"	0.893	ND	272	10-166	High Bias		30	
Benzyl alcohol	0.609	0.0894	"	0.893	ND	68.2	12-124		24.6	30	
Benzyl butyl phthalate	0.878	0.0894	"	0.893	ND	98.3	10-154		26.6	30	
Bis(2-chloroethoxy)methane	0.617	0.0894	"	0.893	ND	69.1	10-132		29.0	30	
Bis(2-chloroethyl)ether	0.579	0.0894	"	0.893	ND	64.8	10-119		20.3	30	
Bis(2-chloroisopropyl)ether	0.547	0.0894	"	0.893	ND	61.2	10-139		22.8	30	
Bis(2-ethylhexyl)phthalate	0.757	0.0894	"	0.893	ND	84.8	10-167		30.4	30	Non-dir.
Caprolactam	0.747	0.179	"	0.893	ND	83.7	10-132		27.7	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike Dup (BK31284-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)								Prepared: 11/20/2023 Analyzed: 11/21/2023		
Carbazole	0.693	0.0894	mg/kg dry	0.893	ND	77.6	10-167		26.8	30	
Chrysene	0.696	0.0894	"	0.893	0.0845	68.5	10-156		31.7	30	Non-dir.
Dibenzo(a,h)anthracene	0.890	0.0894	"	0.893	ND	99.6	10-137		26.8	30	
Dibenzofuran	0.626	0.0894	"	0.893	ND	70.1	10-147		31.9	30	Non-dir.
Diethyl phthalate	0.584	0.0894	"	0.893	ND	65.4	20-120		30.2	30	Non-dir.
Dimethyl phthalate	0.557	0.0894	"	0.893	ND	62.3	18-131		39.0	30	Non-dir.
Di-n-butyl phthalate	0.704	0.0894	"	0.893	ND	78.8	10-137		26.5	30	
Di-n-octyl phthalate	0.893	0.0894	"	0.893	ND	100	10-180		29.4	30	
Diphenylamine	0.799	0.179	"	0.893	ND	89.5	40-140		28.7	30	
Fluoranthene	0.801	0.0894	"	0.893	0.185	69.0	10-160		35.3	30	Non-dir.
Fluorene	0.614	0.0894	"	0.893	ND	68.7	10-157		34.2	30	Non-dir.
Hexachlorobenzene	0.632	0.0894	"	0.893	ND	70.8	10-137		33.1	30	Non-dir.
Hexachlorobutadiene	0.597	0.0894	"	0.893	ND	66.8	10-132		23.5	30	
Hexachlorocyclopentadiene	0.0829	0.0894	"	0.893	ND	9.28	10-106	Low Bias	72.7	30	Non-dir.
Hexachloroethane	0.480	0.0894	"	0.893	ND	53.8	10-110		29.4	30	
Indeno(1,2,3-cd)pyrene	0.991	0.0894	"	0.893	0.0866	101	10-144		26.8	30	
Isophorone	0.605	0.0894	"	0.893	ND	67.8	10-132		27.9	30	
Naphthalene	0.611	0.0894	"	0.893	ND	68.4	10-141		27.9	30	
Nitrobenzene	0.637	0.0894	"	0.893	ND	71.4	10-131		19.5	30	
N-Nitrosodimethylamine	0.547	0.0894	"	0.893	ND	61.3	10-126		20.9	30	
N-nitroso-di-n-propylamine	0.562	0.0894	"	0.893	ND	63.0	10-125		24.1	30	
N-Nitrosodiphenylamine	0.791	0.0894	"	0.893	ND	88.6	10-177		23.8	30	
Pentachlorophenol	ND	0.0894	"	0.893	ND		10-153	Low Bias		30	
Phenanthrene	0.753	0.0894	"	0.893	0.172	65.1	10-148		33.6	30	Non-dir.
Phenol	0.0500	0.0894	"	0.893	ND	5.60	10-126	Low Bias	0.656	30	
Pyrene	0.782	0.0894	"	0.893	0.163	69.2	10-165		30.8	30	Non-dir.
Surrogate: SURR: 2-Fluorophenol	*0.00714*		"	*1.79*		*0.400*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.0936*		"	*1.79*		*5.24*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.627*		"	*0.893*		*70.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.578*		"	*0.893*		*64.7*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		"	*1.79*			*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.652*		"	*0.893*		*73.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Blank (BK31385-BLK1)											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Prepared: 11/21/2023 Analyzed: 11/22/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Blank (BK31385-BLK1)											
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*1.46*		"	*1.66*		*87.8*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.40*		"	*1.66*		*84.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.699*		"	*0.831*		*84.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.668*		"	*0.831*		*80.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.84*		"	*1.66*		*111*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.831*		"	*0.831*		*100*	*24-116*				

Prepared: 11/21/2023 Analyzed: 11/22/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
LCS (BK31385-BS1)									Prepared: 11/21/2023 Analyzed: 11/22/2023		
1,1-Biphenyl	0.559	0.0416	mg/kg wet	0.831		67.3	18-111				
1,2,4,5-Tetrachlorobenzene	0.643	0.0830	"	0.831		77.4	21-131				
1,2,4-Trichlorobenzene	0.704	0.0416	"	0.831		84.8	10-140				
1,2-Dichlorobenzene	0.534	0.0416	"	0.831		64.3	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.499	0.0416	"	0.831		60.0	17-137				
1,3-Dichlorobenzene	0.533	0.0416	"	0.831		64.2	33-110				
1,4-Dichlorobenzene	0.537	0.0416	"	0.831		64.6	32-104				
2,3,4,6-Tetrachlorophenol	0.552	0.0830	"	0.831		66.5	30-130				
2,4,5-Trichlorophenol	0.653	0.0416	"	0.831		78.6	27-118				
2,4,6-Trichlorophenol	0.659	0.0416	"	0.831		79.4	31-120				
2,4-Dichlorophenol	0.658	0.0416	"	0.831		79.3	20-127				
2,4-Dimethylphenol	0.458	0.0416	"	0.831		55.2	14-132				
2,4-Dinitrophenol	0.889	0.0830	"	0.831		107	10-171				
2,4-Dinitrotoluene	0.777	0.0416	"	0.831		93.6	34-131				
2,6-Dinitrotoluene	0.753	0.0416	"	0.831		90.6	31-128				
2-Chloronaphthalene	0.536	0.0416	"	0.831		64.5	31-117				
2-Chlorophenol	0.499	0.0416	"	0.831		60.1	33-113				
2-Methylnaphthalene	0.595	0.0416	"	0.831		71.7	12-138				
2-Methylphenol	0.542	0.0416	"	0.831		65.2	10-136				
2-Nitroaniline	0.630	0.0830	"	0.831		75.8	27-132				
2-Nitrophenol	0.739	0.0416	"	0.831		88.9	17-129				
3- & 4-Methylphenols	0.481	0.0416	"	0.831		57.9	29-103				
3,3-Dichlorobenzidine	0.458	0.0416	"	0.831		55.1	22-149				
3-Nitroaniline	0.471	0.0830	"	0.831		56.7	20-133				
4,6-Dinitro-2-methylphenol	1.18	0.0830	"	0.831		142	10-143				
4-Bromophenyl phenyl ether	0.742	0.0416	"	0.831		89.3	29-120				
4-Chloro-3-methylphenol	0.678	0.0416	"	0.831		81.6	24-129				
4-Chloroaniline	0.332	0.0416	"	0.831		40.0	10-132				
4-Chlorophenyl phenyl ether	0.650	0.0416	"	0.831		78.2	27-124				
4-Nitroaniline	0.473	0.0830	"	0.831		56.9	16-128				
4-Nitrophenol	0.696	0.0830	"	0.831		83.8	10-141				
Acenaphthene	0.520	0.0416	"	0.831		62.6	30-121				
Acenaphthylene	0.493	0.0416	"	0.831		59.3	30-115				
Acetophenone	0.564	0.0416	"	0.831		67.9	20-112				
Aniline	0.335	0.166	"	0.831		40.4	10-119				
Anthracene	0.564	0.0416	"	0.831		68.0	34-118				
Atrazine	0.651	0.0416	"	0.831		78.4	26-112				
Benzaldehyde	0.452	0.0416	"	0.831		54.4	21-100				
Benzo(a)anthracene	0.578	0.0416	"	0.831		69.6	32-122				
Benzo(a)pyrene	0.620	0.0416	"	0.831		74.6	29-133				
Benzo(b)fluoranthene	0.618	0.0416	"	0.831		74.4	25-133				
Benzo(g,h,i)perylene	0.726	0.0416	"	0.831		87.4	10-143				
Benzo(k)fluoranthene	0.658	0.0416	"	0.831		79.2	25-128				
Benzoic acid	0.300	0.0416	"	0.831		36.2	10-140				
Benzyl alcohol	0.526	0.0416	"	0.831		63.3	30-115				
Benzyl butyl phthalate	0.434	0.0416	"	0.831		52.2	26-126				
Bis(2-chloroethoxy)methane	0.608	0.0416	"	0.831		73.2	19-132				
Bis(2-chloroethyl)ether	0.547	0.0416	"	0.831		65.9	19-125				
Bis(2-chloroisopropyl)ether	0.505	0.0416	"	0.831		60.8	20-135				
Bis(2-ethylhexyl)phthalate	0.448	0.0416	"	0.831		53.9	10-155				
Caprolactam	0.678	0.0830	"	0.831		81.6	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
LCS (BK31385-BS1)									Prepared: 11/21/2023 Analyzed: 11/22/2023		
Carbazole	0.521	0.0416	mg/kg wet	0.831		62.8	35-123				
Chrysene	0.592	0.0416	"	0.831		71.2	32-123				
Dibenzo(a,h)anthracene	0.715	0.0416	"	0.831		86.0	10-136				
Dibenzofuran	0.560	0.0416	"	0.831		67.4	29-121				
Diethyl phthalate	0.514	0.0416	"	0.831		61.9	34-116				
Dimethyl phthalate	0.557	0.0416	"	0.831		67.0	35-124				
Di-n-butyl phthalate	0.485	0.0416	"	0.831		58.4	31-116				
Di-n-octyl phthalate	0.456	0.0416	"	0.831		54.9	26-136				
Diphenylamine	0.626	0.0830	"	0.831		75.4	40-140				
Fluoranthene	0.601	0.0416	"	0.831		72.3	33-122				
Fluorene	0.552	0.0416	"	0.831		66.4	29-123				
Hexachlorobenzene	0.473	0.0416	"	0.831		57.0	21-124				
Hexachlorobutadiene	0.822	0.0416	"	0.831		98.9	10-149				
Hexachlorocyclopentadiene	0.406	0.0416	"	0.831		48.8	10-129				
Hexachloroethane	0.518	0.0416	"	0.831		62.4	28-108				
Indeno(1,2,3-cd)pyrene	0.697	0.0416	"	0.831		83.9	10-135				
Isophorone	0.653	0.0416	"	0.831		78.6	20-132				
Naphthalene	0.537	0.0416	"	0.831		64.7	23-124				
Nitrobenzene	0.687	0.0416	"	0.831		82.7	13-132				
N-Nitrosodimethylamine	0.523	0.0416	"	0.831		63.0	11-129				
N-nitroso-di-n-propylamine	0.588	0.0416	"	0.831		70.8	24-119				
N-Nitrosodiphenylamine	0.606	0.0416	"	0.831		72.9	22-152				
Pentachlorophenol	0.675	0.0416	"	0.831		81.3	10-139				
Phenanthrene	0.569	0.0416	"	0.831		68.5	33-123				
Phenol	0.608	0.0416	"	0.831		73.2	23-115				
Pyrene	0.543	0.0416	"	0.831		65.4	32-130				
Surrogate: SURR: 2-Fluorophenol	*1.03*		*"*	*1.66*		*61.9*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.06*		*"*	*1.66*		*63.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.649*		*"*	*0.831*		*78.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.566*		*"*	*0.831*		*68.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2.05*		*"*	*1.66*		*123*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.633*		*"*	*0.831*		*76.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Matrix Spike (BK31385-MS1)	*Source sample: 23K0737-03 (Matrix Spike)							Prepared: 11/21/2023 Analyzed: 11/24/2023			
1,1-Biphenyl	0.786	0.0934	mg/kg dry	0.934	ND	84.2	10-130				
1,2,4,5-Tetrachlorobenzene	0.817	0.187	"	0.934	ND	87.5	10-133				
1,2,4-Trichlorobenzene	0.811	0.0934	"	0.934	ND	86.9	10-127				
1,2-Dichlorobenzene	0.757	0.0934	"	0.934	ND	81.1	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.924	0.0934	"	0.934	ND	99.0	10-144				
1,3-Dichlorobenzene	0.748	0.0934	"	0.934	ND	80.1	11-111				
1,4-Dichlorobenzene	0.739	0.0934	"	0.934	ND	79.2	10-106				
2,3,4,6-Tetrachlorophenol	1.12	0.187	"	0.934	ND	120	30-130				
2,4,5-Trichlorophenol	0.934	0.0934	"	0.934	ND	100	10-127				
2,4,6-Trichlorophenol	0.931	0.0934	"	0.934	ND	99.8	10-132				
2,4-Dichlorophenol	0.928	0.0934	"	0.934	ND	99.4	10-128				
2,4-Dimethylphenol	0.768	0.0934	"	0.934	ND	82.2	10-137				
2,4-Dinitrophenol	ND	0.187	"	0.934	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.677	0.0934	"	0.934	ND	72.6	16-135				
2,6-Dinitrotoluene	0.718	0.0934	"	0.934	ND	77.0	18-131				
2-Chloronaphthalene	0.819	0.0934	"	0.934	ND	87.8	10-129				
2-Chlorophenol	0.901	0.0934	"	0.934	ND	96.5	15-116				
2-Methylnaphthalene	0.845	0.0934	"	0.934	ND	90.5	10-147				
2-Methylphenol	0.871	0.0934	"	0.934	ND	93.3	10-136				
2-Nitroaniline	0.972	0.187	"	0.934	ND	104	10-137				
2-Nitrophenol	0.616	0.0934	"	0.934	ND	66.0	10-129				
3- & 4-Methylphenols	0.871	0.0934	"	0.934	ND	93.3	10-123				
3,3-Dichlorobenzidine	0.822	0.0934	"	0.934	ND	88.0	10-155				
3-Nitroaniline	0.973	0.187	"	0.934	ND	104	12-133				
4,6-Dinitro-2-methylphenol	0.111	0.187	"	0.934	ND	11.8	10-155				
4-Bromophenyl phenyl ether	0.775	0.0934	"	0.934	ND	83.0	14-128				
4-Chloro-3-methylphenol	1.13	0.0934	"	0.934	ND	121	10-134				
4-Chloroaniline	0.792	0.0934	"	0.934	ND	84.8	10-145				
4-Chlorophenyl phenyl ether	0.805	0.0934	"	0.934	ND	86.2	14-130				
4-Nitroaniline	1.02	0.187	"	0.934	ND	109	10-147				
4-Nitrophenol	1.01	0.187	"	0.934	ND	108	10-137				
Acenaphthene	0.783	0.0934	"	0.934	ND	83.8	10-146				
Acenaphthylene	0.816	0.0934	"	0.934	ND	87.4	10-134				
Acetophenone	1.01	0.0934	"	0.934	ND	108	10-116				
Aniline	0.700	0.374	"	0.934	ND	75.0	10-123				
Anthracene	0.807	0.0934	"	0.934	ND	86.4	10-142				
Atrazine	0.775	0.0934	"	0.934	ND	83.0	19-115				
Benzaldehyde	0.846	0.0934	"	0.934	ND	90.6	10-125				
Benzo(a)anthracene	0.929	0.0934	"	0.934	ND	99.5	10-158				
Benzo(a)pyrene	0.845	0.0934	"	0.934	ND	90.6	10-180				
Benzo(b)fluoranthene	0.867	0.0934	"	0.934	ND	92.9	10-200				
Benzo(g,h,i)perylene	0.712	0.0934	"	0.934	ND	76.2	10-138				
Benzo(k)fluoranthene	0.865	0.0934	"	0.934	ND	92.6	10-197				
Benzoic acid	1.02	0.0934	"	0.934	ND	109	10-166				
Benzyl alcohol	0.898	0.0934	"	0.934	ND	96.2	12-124				
Benzyl butyl phthalate	0.973	0.0934	"	0.934	ND	104	10-154				
Bis(2-chloroethoxy)methane	1.02	0.0934	"	0.934	ND	109	10-132				
Bis(2-chloroethyl)ether	1.01	0.0934	"	0.934	ND	108	10-119				
Bis(2-chloroisopropyl)ether	1.20	0.0934	"	0.934	ND	129	10-139				
Bis(2-ethylhexyl)phthalate	1.01	0.0934	"	0.934	ND	108	10-167				
Caprolactam	1.16	0.187	"	0.934	ND	124	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Matrix Spike (BK31385-MS1)	*Source sample: 23K0737-03 (Matrix Spike)							Prepared: 11/21/2023 Analyzed: 11/24/2023			
Carbazole	0.894	0.0934	mg/kg dry	0.934	ND	95.8	10-167				
Chrysene	0.886	0.0934	"	0.934	ND	94.9	10-156				
Dibenzo(a,h)anthracene	0.841	0.0934	"	0.934	ND	90.1	10-137				
Dibenzofuran	0.833	0.0934	"	0.934	ND	89.2	10-147				
Diethyl phthalate	0.847	0.0934	"	0.934	ND	90.7	20-120				
Dimethyl phthalate	0.846	0.0934	"	0.934	ND	90.6	18-131				
Di-n-butyl phthalate	0.872	0.0934	"	0.934	ND	93.4	10-137				
Di-n-octyl phthalate	1.10	0.0934	"	0.934	ND	118	10-180				
Diphenylamine	0.934	0.187	"	0.934	ND	100	40-140				
Fluoranthene	0.859	0.0934	"	0.934	ND	92.0	10-160				
Fluorene	0.819	0.0934	"	0.934	ND	87.8	10-157				
Hexachlorobenzene	0.864	0.0934	"	0.934	ND	92.6	10-137				
Hexachlorobutadiene	0.760	0.0934	"	0.934	ND	81.4	10-132				
Hexachlorocyclopentadiene	ND	0.0934	"	0.934	ND		10-106	Low Bias			
Hexachloroethane	0.503	0.0934	"	0.934	ND	53.9	10-110				
Indeno(1,2,3-cd)pyrene	0.808	0.0934	"	0.934	ND	86.6	10-144				
Isophorone	1.09	0.0934	"	0.934	ND	117	10-132				
Naphthalene	0.868	0.0934	"	0.934	ND	93.0	10-141				
Nitrobenzene	1.03	0.0934	"	0.934	ND	110	10-131				
N-Nitrosodimethylamine	1.03	0.0934	"	0.934	ND	110	10-126				
N-nitroso-di-n-propylamine	0.986	0.0934	"	0.934	ND	106	10-125				
N-Nitrosodiphenylamine	0.872	0.0934	"	0.934	ND	93.4	10-177				
Pentachlorophenol	0.833	0.0934	"	0.934	ND	89.2	10-153				
Phenanthrene	0.848	0.0934	"	0.934	ND	90.8	10-148				
Phenol	1.04	0.0934	"	0.934	ND	112	10-126				
Pyrene	0.933	0.0934	"	0.934	ND	99.9	10-165				
Surrogate: SURR: 2-Fluorophenol	*1.96*		"	*1.87*		*105*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.97*		"	*1.87*		*105*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.984*		"	*0.934*		*105*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.736*		"	*0.934*		*78.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.63*		"	*1.87*		*87.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.819*		"	*0.934*		*87.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Matrix Spike Dup (BK31385-MSD1)	*Source sample: 23K0737-03 (Matrix Spike Dup)								Prepared: 11/21/2023 Analyzed: 11/24/2023		
1,1-Biphenyl	0.625	0.0931	mg/kg dry	0.930	ND	67.1	10-130		22.9	30	
1,2,4,5-Tetrachlorobenzene	0.660	0.186	"	0.930	ND	70.9	10-133		21.3	30	
1,2,4-Trichlorobenzene	0.663	0.0931	"	0.930	ND	71.3	10-127		20.1	30	
1,2-Dichlorobenzene	0.608	0.0931	"	0.930	ND	65.4	14-111		21.8	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.707	0.0931	"	0.930	ND	76.0	10-144		26.6	30	
1,3-Dichlorobenzene	0.587	0.0931	"	0.930	ND	63.1	11-111		24.0	30	
1,4-Dichlorobenzene	0.586	0.0931	"	0.930	ND	63.0	10-106		23.2	30	
2,3,4,6-Tetrachlorophenol	0.911	0.186	"	0.930	ND	97.9	30-130		20.3	30	
2,4,5-Trichlorophenol	0.748	0.0931	"	0.930	ND	80.4	10-127		22.1	30	
2,4,6-Trichlorophenol	0.726	0.0931	"	0.930	ND	78.0	10-132		24.8	30	
2,4-Dichlorophenol	0.734	0.0931	"	0.930	ND	78.9	10-128		23.4	30	
2,4-Dimethylphenol	0.626	0.0931	"	0.930	ND	67.3	10-137		20.3	30	
2,4-Dinitrophenol	ND	0.186	"	0.930	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.514	0.0931	"	0.930	ND	55.3	16-135		27.4	30	
2,6-Dinitrotoluene	0.555	0.0931	"	0.930	ND	59.7	18-131		25.6	30	
2-Chloronaphthalene	0.649	0.0931	"	0.930	ND	69.8	10-129		23.2	30	
2-Chlorophenol	0.708	0.0931	"	0.930	ND	76.1	15-116		24.0	30	
2-Methylnaphthalene	0.681	0.0931	"	0.930	ND	73.2	10-147		21.4	30	
2-Methylphenol	0.660	0.0931	"	0.930	ND	71.0	10-136		27.5	30	
2-Nitroaniline	0.748	0.186	"	0.930	ND	80.4	10-137		26.1	30	
2-Nitrophenol	0.509	0.0931	"	0.930	ND	54.7	10-129		19.0	30	
3- & 4-Methylphenols	0.660	0.0931	"	0.930	ND	71.0	10-123		27.5	30	
3,3-Dichlorobenzidine	0.671	0.0931	"	0.930	ND	72.1	10-155		20.2	30	
3-Nitroaniline	0.762	0.186	"	0.930	ND	81.8	12-133		24.4	30	
4,6-Dinitro-2-methylphenol	ND	0.186	"	0.930	ND		10-155	Low Bias		30	
4-Bromophenyl phenyl ether	0.610	0.0931	"	0.930	ND	65.6	14-128		23.8	30	
4-Chloro-3-methylphenol	0.899	0.0931	"	0.930	ND	96.6	10-134		22.5	30	
4-Chloroaniline	0.639	0.0931	"	0.930	ND	68.7	10-145		21.3	30	
4-Chlorophenyl phenyl ether	0.671	0.0931	"	0.930	ND	72.1	14-130		18.2	30	
4-Nitroaniline	0.814	0.186	"	0.930	ND	87.5	10-147		22.1	30	
4-Nitrophenol	0.790	0.186	"	0.930	ND	84.9	10-137		24.7	30	
Acenaphthene	0.618	0.0931	"	0.930	ND	66.4	10-146		23.5	30	
Acenaphthylene	0.642	0.0931	"	0.930	ND	69.0	10-134		23.8	30	
Acetophenone	0.784	0.0931	"	0.930	ND	84.2	10-116		25.2	30	
Aniline	0.578	0.373	"	0.930	ND	62.2	10-123		19.0	30	
Anthracene	0.648	0.0931	"	0.930	ND	69.6	10-142		21.9	30	
Atrazine	0.651	0.0931	"	0.930	ND	69.9	19-115		17.5	30	
Benzaldehyde	0.685	0.0931	"	0.930	ND	73.6	10-125		21.1	30	
Benzo(a)anthracene	0.749	0.0931	"	0.930	ND	80.5	10-158		21.5	30	
Benzo(a)pyrene	0.700	0.0931	"	0.930	ND	75.3	10-180		18.8	30	
Benzo(b)fluoranthene	0.729	0.0931	"	0.930	ND	78.3	10-200		17.3	30	
Benzo(g,h,i)perylene	0.590	0.0931	"	0.930	ND	63.4	10-138		18.8	30	
Benzo(k)fluoranthene	0.700	0.0931	"	0.930	ND	75.3	10-197		21.0	30	
Benzoic acid	0.798	0.0931	"	0.930	ND	85.8	10-166		24.2	30	
Benzyl alcohol	0.703	0.0931	"	0.930	ND	75.6	12-124		24.3	30	
Benzyl butyl phthalate	0.763	0.0931	"	0.930	ND	82.0	10-154		24.2	30	
Bis(2-chloroethoxy)methane	0.824	0.0931	"	0.930	ND	88.6	10-132		21.3	30	
Bis(2-chloroethyl)ether	0.782	0.0931	"	0.930	ND	84.0	10-119		25.6	30	
Bis(2-chloroisopropyl)ether	0.933	0.0931	"	0.930	ND	100	10-139		25.0	30	
Bis(2-ethylhexyl)phthalate	0.799	0.0931	"	0.930	ND	85.9	10-167		23.2	30	
Caprolactam	0.919	0.186	"	0.930	ND	98.8	10-132		23.3	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

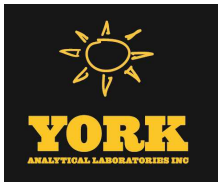
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Matrix Spike Dup (BK31385-MSD1)	*Source sample: 23K0737-03 (Matrix Spike Dup)								Prepared: 11/21/2023 Analyzed: 11/24/2023		
Carbazole	0.714	0.0931	mg/kg dry	0.930	ND	76.7	10-167		22.4	30	
Chrysene	0.723	0.0931	"	0.930	ND	77.7	10-156		20.3	30	
Dibenzo(a,h)anthracene	0.687	0.0931	"	0.930	ND	73.8	10-137		20.1	30	
Dibenzofuran	0.668	0.0931	"	0.930	ND	71.8	10-147		22.0	30	
Diethyl phthalate	0.667	0.0931	"	0.930	ND	71.7	20-120		23.8	30	
Dimethyl phthalate	0.666	0.0931	"	0.930	ND	71.6	18-131		23.8	30	
Di-n-butyl phthalate	0.697	0.0931	"	0.930	ND	74.9	10-137		22.4	30	
Di-n-octyl phthalate	0.885	0.0931	"	0.930	ND	95.1	10-180		21.9	30	
Diphenylamine	0.720	0.186	"	0.930	ND	77.4	40-140		25.9	30	
Fluoranthene	0.698	0.0931	"	0.930	ND	75.0	10-160		20.6	30	
Fluorene	0.658	0.0931	"	0.930	ND	70.7	10-157		21.8	30	
Hexachlorobenzene	0.689	0.0931	"	0.930	ND	74.0	10-137		22.6	30	
Hexachlorobutadiene	0.653	0.0931	"	0.930	ND	70.2	10-132		15.2	30	
Hexachlorocyclopentadiene	ND	0.0931	"	0.930	ND		10-106	Low Bias		30	
Hexachloroethane	0.406	0.0931	"	0.930	ND	43.6	10-110		21.5	30	
Indeno(1,2,3-cd)pyrene	0.668	0.0931	"	0.930	ND	71.8	10-144		18.9	30	
Isophorone	0.861	0.0931	"	0.930	ND	92.5	10-132		23.9	30	
Naphthalene	0.696	0.0931	"	0.930	ND	74.8	10-141		22.0	30	
Nitrobenzene	0.811	0.0931	"	0.930	ND	87.2	10-131		23.5	30	
N-Nitrosodimethylamine	0.823	0.0931	"	0.930	ND	88.5	10-126		22.4	30	
N-nitroso-di-n-propylamine	0.791	0.0931	"	0.930	ND	85.0	10-125		22.0	30	
N-Nitrosodiphenylamine	0.680	0.0931	"	0.930	ND	73.0	10-177		24.8	30	
Pentachlorophenol	0.626	0.0931	"	0.930	ND	67.3	10-153		28.3	30	
Phenanthrene	0.669	0.0931	"	0.930	ND	71.9	10-148		23.5	30	
Phenol	0.821	0.0931	"	0.930	ND	88.2	10-126		24.0	30	
Pyrene	0.725	0.0931	"	0.930	ND	77.9	10-165		25.1	30	
Surrogate: SURR: 2-Fluorophenol	*1.61*		"	*1.86*		*86.7*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.60*		"	*1.86*		*86.2*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.805*		"	*0.930*		*86.5*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.592*		"	*0.930*		*63.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.34*		"	*1.86*		*72.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.669*		"	*0.930*		*71.9*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31066 - EPA 3550C											
Blank (BK31066-BLK1)								Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	ND	0.0198	mg/kg								
Surrogate: 1,4-Dioxane-d8	*0.343*		"	*0.495*		*69.4*	*39-127.5*				
LCS (BK31066-BS1)								Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.572	0.0198	mg/kg	0.495		116	40-130				
Surrogate: 1,4-Dioxane-d8	*0.369*		"	*0.495*		*74.6*	*39-127.5*				
Matrix Spike (BK31066-MS1)	*Source sample: 23K0660-06 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.546	0.0198	mg/kg	0.495	ND	110	40-130				
Surrogate: 1,4-Dioxane-d8	*0.369*		"	*0.495*		*74.5*	*40-130*				
Matrix Spike Dup (BK31066-MSD1)	*Source sample: 23K0660-06 (Matrix Spike Dup)							Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.548	0.0198	mg/kg	0.495	ND	111	40-130		0.362	30	
Surrogate: 1,4-Dioxane-d8	*0.331*		"	*0.495*		*66.9*	*40-130*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
Blank (BK31292-BLK1)											Prepared: 11/20/2023 Analyzed: 11/22/2023
Perfluorobutanesulfonic acid (PFBS)	ND	0.175	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.198	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.198	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.181	"								
Perfluorooctanoic acid (PFOA)	ND	0.198	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.184	"								
Perfluorononanoic acid (PFNA)	ND	0.198	"								
Perfluorodecanoic acid (PFDA)	ND	0.198	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.198	"								
Perfluorododecanoic acid (PFDoA)	ND	0.198	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.198	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.198	"								
N-MeFOSAA	ND	0.198	"								
N-EtFOSAA	ND	0.198	"								
Perfluoropentanoic acid (PFPeA)	ND	0.396	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.198	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.198	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.191	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.752	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.760	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.792	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.352	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.396	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.396	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.396	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.186	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.743	"								
HFPO-DA (Gen-X)	ND	0.792	"								
11CL-PF3OUdS	ND	0.749	"								
9CL-PF3ONS	ND	0.741	"								
ADONA	ND	0.749	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.192	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.190	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.990	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.95	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.95	"								
N-MeFOSE	ND	1.98	"								
N-MeFOSA	ND	0.198	"								
N-EtFOSE	ND	1.98	"								
N-EtFOSA	ND	0.198	"								
Surrogate: M3PFBS	*1.74*		"	*1.92*		*90.8*	*25-150*				
Surrogate: M5PFHxA	*2.31*		"	*2.06*		*112*	*25-150*				
Surrogate: M4PFHpA	*2.87*		"	*2.06*		*139*	*25-150*				
Surrogate: M3PFHxS	*2.68*		"	*1.96*		*137*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.40*		"	*2.06*		*116*	*25-150*				
Surrogate: M6PFDA	*0.945*		"	*1.03*		*91.8*	*25-150*				
Surrogate: M7PFUdA	*0.961*		"	*1.03*		*93.3*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
Blank (BK31292-BLK1)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.787*		*ug/kg wet*	*1.03*		*76.4*	*25-150*				
Surrogate: M2PFTeDA	*0.664*		*"*	*1.03*		*64.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.187*		*"*	*8.27*		*2.26*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.51*		*"*	*1.98*		*76.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.270*		*"*	*4.12*		*6.54*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.30*		*"*	*2.06*		*62.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.62*		*"*	*4.12*		*39.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.74*		*"*	*4.12*		*42.2*	*25-150*				
Surrogate: M2-6:2 FTS	*2.55*		*"*	*3.92*		*65.1*	*25-200*				
Surrogate: M2-8:2 FTS	*1.89*		*"*	*3.96*		*47.8*	*25-200*				
Surrogate: M9PFNA	*1.02*		*"*	*1.03*		*99.1*	*25-150*				
Surrogate: M2-4:2 FTS	*2.93*		*"*	*3.87*		*75.8*	*25-150*				
Surrogate: d-N-MeFOSA	*0.903*		*"*	*2.06*		*43.7*	*25-150*				
Surrogate: d-N-EtFOSA	*0.817*		*"*	*2.06*		*39.6*	*25-150*				
Surrogate: M3HFPO-DA	*10.2*		*"*	*8.27*		*124*	*25-150*				
Surrogate: d9-N-EtFOSE	*4.01*		*"*	*20.6*		*19.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*6.87*		*"*	*20.6*		*33.3*	*25-150*				
LCS (BK31292-BS1)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	3.46	0.175	ug/kg wet	3.50		98.7	50-150				
Perfluorohexanoic acid (PFHxA)	3.69	0.198	"	3.96		93.3	50-150				
Perfluoroheptanoic acid (PFHpA)	3.25	0.198	"	3.96		82.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.25	0.181	"	3.62		89.8	50-150				
Perfluorooctanoic acid (PFOA)	3.85	0.198	"	3.96		97.3	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.66	0.184	"	3.68		99.4	50-150				
Perfluorononanoic acid (PFNA)	4.03	0.198	"	3.96		102	50-150				
Perfluorodecanoic acid (PFDA)	3.39	0.198	"	3.96		85.5	50-150				
Perfluoroundecanoic acid (PFUnA)	4.32	0.198	"	3.96		109	50-150				
Perfluorododecanoic acid (PFDoA)	4.32	0.198	"	3.96		109	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.53	0.198	"	3.96		114	50-150				
Perfluorotetradecanoic acid (PFTA)	3.38	0.198	"	3.96		85.4	50-150				
N-MeFOSAA	3.68	0.198	"	3.96		93.0	50-150				
N-EtFOSAA	4.22	0.198	"	3.96		106	50-150				
Perfluoropentanoic acid (PFPeA)	6.96	0.396	"	7.92		87.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.28	0.198	"	3.96		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.25	0.198	"	3.78		112	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.36	0.191	"	3.82		87.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.7	0.752	"	15.0		104	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.6	0.760	"	15.2		109	50-150				
Perfluoro-n-butanoic acid (PFBA)	9.77	0.792	"	15.8		61.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.24	0.352	"	7.05		103	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.03	0.396	"	7.92		63.6	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.95	0.396	"	7.92		24.6	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	21.3	0.396	"	7.92		268	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.55	0.186	"	3.72		95.4	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
LCS (BK31292-BS1)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.0	0.743	ug/kg wet	14.9		94.3	50-150				
HFPO-DA (Gen-X)	6.65	0.792	"	7.92		83.9	50-150				
11CL-PF3OUdS	5.63	0.749	"	7.49		75.3	50-150				
9CL-PF3ONS	7.07	0.741	"	7.41		95.5	50-150				
ADONA	8.17	0.749	"	7.49		109	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.88	0.192	"	3.84		75.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.79	0.190	"	3.80		99.7	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	5.88	0.990	"	15.8		37.1	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	90.6	4.95	"	79.2		114	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	72.5	4.95	"	79.2		91.6	50-150				
N-MeFOSE	41.0	1.98	"	39.6		103	50-150				
N-MeFOSA	3.52	0.198	"	3.96		88.8	50-150				
N-EtFOSE	44.1	1.98	"	39.6		111	50-150				
N-EtFOSA	2.67	0.198	"	3.96		67.3	50-150				
Surrogate: M3PFBS	*1.42*		"	*1.92*		*73.8*	*25-150*				
Surrogate: M5PFHxA	*2.15*		"	*2.06*		*104*	*25-150*				
Surrogate: M4PFHpA	*2.89*		"	*2.06*		*140*	*25-150*				
Surrogate: M3PFHxS	*2.68*		"	*1.96*		*137*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.21*		"	*2.06*		*107*	*25-150*				
Surrogate: M6PFDA	*1.08*		"	*1.03*		*104*	*25-150*				
Surrogate: M7PFUdA	*0.946*		"	*1.03*		*91.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.803*		"	*1.03*		*78.0*	*25-150*				
Surrogate: M2PFTeDA	*0.628*		"	*1.03*		*61.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.168*		"	*8.27*		*2.04*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.58*		"	*1.98*		*79.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.196*		"	*4.12*		*4.76*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.46*		"	*2.06*		*70.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.87*		"	*4.12*		*45.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.89*		"	*4.12*		*45.8*	*25-150*				
Surrogate: M2-6:2 FTS	*2.86*		"	*3.92*		*72.9*	*25-200*				
Surrogate: M2-8:2 FTS	*2.02*		"	*3.96*		*50.9*	*25-200*				
Surrogate: M9PFNA	*1.14*		"	*1.03*		*111*	*25-150*				
Surrogate: M2-4:2 FTS	*2.72*		"	*3.87*		*70.1*	*25-150*				
Surrogate: d-N-MeFOSA	*0.987*		"	*2.06*		*47.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.05*		"	*2.06*		*50.7*	*25-150*				
Surrogate: M3HFPO-DA	*9.82*		"	*8.27*		*119*	*25-150*				
Surrogate: d9-N-EtFOSE	*5.54*		"	*20.6*		*26.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*8.77*		"	*20.6*		*42.5*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
LCS (BK31292-BS2)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	0.652	0.175	ug/kg wet	0.701		93.1	50-150				
Perfluorohexanoic acid (PFHxA)	0.707	0.198	"	0.792		89.2	50-150				
Perfluoroheptanoic acid (PFHpA)	0.591	0.198	"	0.792		74.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.695	0.181	"	0.725		95.9	50-150				
Perfluorooctanoic acid (PFOA)	0.788	0.198	"	0.792		99.5	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.713	0.184	"	0.737		96.7	50-150				
Perfluorononanoic acid (PFNA)	0.894	0.198	"	0.792		113	50-150				
Perfluorodecanoic acid (PFDA)	0.747	0.198	"	0.792		94.2	50-150				
Perfluoroundecanoic acid (PFUnA)	0.822	0.198	"	0.792		104	50-150				
Perfluorododecanoic acid (PFDoA)	0.769	0.198	"	0.792		97.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.901	0.198	"	0.792		114	50-150				
Perfluorotetradecanoic acid (PFTA)	0.623	0.198	"	0.792		78.6	50-150				
N-MeFOSAA	0.760	0.198	"	0.792		95.9	50-150				
N-EtFOSAA	0.785	0.198	"	0.792		99.1	50-150				
Perfluoropentanoic acid (PFPeA)	1.43	0.396	"	1.58		90.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.979	0.198	"	0.792		124	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.832	0.198	"	0.756		110	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.587	0.191	"	0.764		76.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.36	0.752	"	3.01		112	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.34	0.760	"	3.04		110	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.18	0.792	"	3.17		68.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.41	0.352	"	1.41		99.7	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.08	0.396	"	1.58		68.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.173	0.396	"	1.58		10.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	3.62	0.396	"	1.58		229	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	0.709	0.186	"	0.745		95.2	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.72	0.743	"	2.97		91.5	50-150				
HFPO-DA (Gen-X)	1.12	0.792	"	1.58		70.9	50-150				
11CL-PF3OUdS	1.09	0.749	"	1.50		73.1	50-150				
9CL-PF3ONS	1.33	0.741	"	1.48		89.7	50-150				
ADONA	1.31	0.749	"	1.50		87.4	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.621	0.192	"	0.768		80.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.825	0.190	"	0.760		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	0.903	0.990	"	3.17		28.5	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	14.6	4.95	"	15.8		92.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	12.1	4.95	"	15.8		76.4	50-150				
N-MeFOSE	8.44	1.98	"	7.92		107	50-150				
N-MeFOSA	0.774	0.198	"	0.792		97.7	50-150				
N-EtFOSE	8.09	1.98	"	7.92		102	50-150				
N-EtFOSA	0.606	0.198	"	0.792		76.5	50-150				
Surrogate: M3PFBS	*2.06*		"	*1.92*		*107*	*25-150*				
Surrogate: M5PFHxA	*2.67*		"	*2.06*		*129*	*25-150*				
Surrogate: M4PFHpA	*2.95*		"	*2.06*		*143*	*25-150*				
Surrogate: M3PFHxS	*2.61*		"	*1.96*		*134*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.35*		"	*2.06*		*114*	*25-150*				
Surrogate: M6PFDA	*1.10*		"	*1.03*		*106*	*25-150*				
Surrogate: M7PFUdA	*0.994*		"	*1.03*		*96.5*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

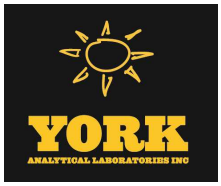
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
LCS (BK31292-BS2)											
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.848*		*ug/kg wet*	*1.03*		*82.3*	*25-150*				
Surrogate: M2PFTeDA	*0.652*		*"*	*1.03*		*63.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.221*		*"*	*8.27*		*2.67*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.79*		*"*	*1.98*		*90.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.788*		*"*	*4.12*		*19.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.42*		*"*	*2.06*		*68.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.10*		*"*	*4.12*		*51.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.28*		*"*	*4.12*		*55.3*	*25-150*				
Surrogate: M2-6:2 FTS	*2.69*		*"*	*3.92*		*68.6*	*25-200*				
Surrogate: M2-8:2 FTS	*2.13*		*"*	*3.96*		*53.9*	*25-200*				
Surrogate: M9PFNA	*1.11*		*"*	*1.03*		*108*	*25-150*				
Surrogate: M2-4:2 FTS	*2.90*		*"*	*3.87*		*74.8*	*25-150*				
Surrogate: d-N-MeFOSA	*1.10*		*"*	*2.06*		*53.4*	*25-150*				
Surrogate: d-N-EtFOSA	*1.06*		*"*	*2.06*		*51.4*	*25-150*				
Surrogate: M3HFPO-DA	*12.1*		*"*	*8.27*		*146*	*25-150*				
Surrogate: d9-N-EtFOSE	*7.92*		*"*	*20.6*		*38.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*10.5*		*"*	*20.6*		*50.8*	*25-150*				
Duplicate (BK31292-DUP1)	*Source sample: 23K0980-08 (23SP6 (22.5-25 ft))										
Perfluorobutanesulfonic acid (PFBS)	ND	0.259	ug/kg dry		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	0.292	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	0.292	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	0.268	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	0.292	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	0.272	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	0.292	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	0.292	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	0.292	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	0.292	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	0.292	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	0.292	"		ND					30	
N-MeFOSAA	ND	0.292	"		ND					30	
N-EtFOSAA	ND	0.292	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	0.585	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.292	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.292	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.282	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	1.11	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	1.12	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	1.17	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.520	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.585	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.585	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.585	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.275	"		ND					30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
Duplicate (BK31292-DUP1)	*Source sample: 23K0980-08 (23SP6 (22.5-25 ft))								Prepared: 11/20/2023 Analyzed: 11/22/2023		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	1.10	ug/kg dry		ND					30	
HFPO-DA (Gen-X)	ND	1.17	"		ND					30	
11CL-PF3OUdS	ND	1.11	"		ND					30	
9CL-PF3ONS	ND	1.09	"		ND					30	
ADONA	ND	1.11	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	0.284	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.281	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.46	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	7.31	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	7.31	"		ND					30	
N-MeFOSE	ND	2.92	"		ND					30	
N-MeFOSA	ND	0.292	"		ND					30	
N-EtFOSE	ND	2.92	"		ND					30	
N-EtFOSA	ND	0.292	"		ND					30	
Surrogate: M3PFBS	*2.21*		"	*2.84*		*77.8*	*25-150*				
Surrogate: M5PFHxA	*3.25*		"	*3.05*		*107*	*25-150*				
Surrogate: M4PFHpA	*3.89*		"	*3.05*		*128*	*25-150*				
Surrogate: M3PFHxS	*3.98*		"	*2.89*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.40*		"	*3.05*		*111*	*25-150*				
Surrogate: M6PFDA	*1.98*		"	*1.52*		*131*	*25-150*				
Surrogate: M7PFUdA	*2.30*		"	*1.52*		*151*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.67*		"	*1.52*		*110*	*25-150*				
Surrogate: M2PFTeDA	*1.06*		"	*1.52*		*69.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.291*		"	*12.2*		*2.38*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.98*		"	*2.92*		*102*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.400*		"	*6.09*		*6.57*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.40*		"	*3.05*		*78.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.73*		"	*6.09*		*61.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.06*		"	*6.09*		*66.8*	*25-150*				
Surrogate: M2-6:2 FTS	*4.07*		"	*5.79*		*70.4*	*25-200*				
Surrogate: M2-8:2 FTS	*4.12*		"	*5.85*		*70.5*	*25-200*				
Surrogate: M9PFNA	*1.90*		"	*1.52*		*125*	*25-150*				
Surrogate: M2-4:2 FTS	*3.79*		"	*5.72*		*66.2*	*25-150*				
Surrogate: d-N-MeFOSA	*1.97*		"	*3.05*		*64.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.39*		"	*3.05*		*45.7*	*25-150*				
Surrogate: M3HFPO-DA	*14.6*		"	*12.2*		*120*	*25-150*				
Surrogate: d9-N-EtFOSE	*6.93*		"	*30.5*		*22.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*11.2*		"	*30.5*		*36.6*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
Blank (BK31413-BLK1)											Prepared: 11/21/2023 Analyzed: 11/22/2023
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	1.24	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*57.5*		"	*46.6*		*124*	*25-150*				
Surrogate: M5PFHxA	*56.7*		"	*50.0*		*114*	*25-150*				
Surrogate: M4PFHpA	*64.6*		"	*50.0*		*129*	*25-150*				
Surrogate: M3PFHxS	*62.6*		"	*47.4*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*51.1*		"	*50.0*		*102*	*25-150*				
Surrogate: M6PFDA	*28.7*		"	*25.0*		*115*	*25-150*				
Surrogate: M7PFUdA	*32.7*		"	*25.0*		*131*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
Blank (BK31413-BLK1)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.8*		*ng/L*	*25.0*		*107*	*25-150*				
Surrogate: M2PFTeDA	*19.1*		*"*	*25.0*		*76.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*6.61*		*"*	*200*		*3.30*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*44.7*		*"*	*47.9*		*93.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*61.4*		*"*	*100*		*61.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*42.1*		*"*	*50.0*		*84.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*60.7*		*"*	*100*		*60.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*70.6*		*"*	*100*		*70.6*	*25-150*				
Surrogate: M2-6:2 FTS	*52.9*		*"*	*95.1*		*55.6*	*25-200*				
Surrogate: M2-8:2 FTS	*62.9*		*"*	*96.0*		*65.5*	*25-200*				
Surrogate: M9PFNA	*27.9*		*"*	*25.0*		*112*	*25-150*				
Surrogate: M2-4:2 FTS	*68.1*		*"*	*93.8*		*72.6*	*25-150*				
Surrogate: d-N-MeFOSA	*30.6*		*"*	*50.0*		*61.2*	*25-150*				
Surrogate: d-N-EtFOSA	*25.7*		*"*	*50.0*		*51.4*	*25-150*				
Surrogate: M3HFPO-DA	*266*		*"*	*200*		*133*	*25-150*				
Surrogate: d9-N-EtFOSE	*185*		*"*	*500*		*37.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*290*		*"*	*500*		*58.0*	*25-150*				
LCS (BK31413-BS1)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	63.8	3.54	ng/L	70.8		90.1	50-150				
Perfluorohexanoic acid (PFHxA)	74.0	4.00	"	80.0		92.5	50-150				
Perfluoroheptanoic acid (PFHpA)	64.3	4.00	"	80.0		80.3	50-150				
Perfluorohexanesulfonic acid (PFHxS)	12.7	3.66	"	73.2		17.3	50-150	Low Bias			
Perfluorooctanoic acid (PFOA)	72.5	4.00	"	80.0		90.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	22.0	3.72	"	74.4		29.5	50-150	Low Bias			
Perfluorononanoic acid (PFNA)	86.4	4.00	"	80.0		108	50-150				
Perfluorodecanoic acid (PFDA)	81.7	4.00	"	80.0		102	50-150				
Perfluoroundecanoic acid (PFUnA)	82.2	4.00	"	80.0		103	50-150				
Perfluorododecanoic acid (PFDoA)	79.3	4.00	"	80.0		99.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	97.0	4.00	"	80.0		121	50-150				
Perfluorotetradecanoic acid (PFTA)	68.9	4.00	"	80.0		86.1	50-150				
N-MeFOSAA	8.67	4.00	"	80.0		10.8	50-150	Low Bias			
N-EtFOSAA	7.42	4.00	"	80.0		9.28	50-150	Low Bias			
Perfluoropentanoic acid (PFPeA)	144	8.00	"	160		89.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	86.4	4.00	"	80.0		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	72.8	3.82	"	76.4		95.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	76.1	3.86	"	77.2		98.6	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	338	15.2	"	304		111	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	335	15.4	"	307		109	50-150				
Perfluoro-n-butanoic acid (PFBA)	226	16.0	"	320		70.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	141	7.12	"	142		99.1	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	125	8.00	"	160		78.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	19.4	8.00	"	160		12.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	245	8.00	"	160		153	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	64.3	3.76	"	75.2		85.5	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
LCS (BK31413-BS1)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	269	15.0	ng/L	300		89.8	50-150				
HFPO-DA (Gen-X)	143	16.0	"	160		89.3	50-150				
11CL-PF3OUdS	162	15.1	"	151		107	50-150				
9CL-PF3ONS	176	15.0	"	150		118	50-150				
ADONA	139	15.1	"	151		92.2	50-150				
Perfluorododecanesulfonic acid (PFDoS)	55.2	3.88	"	77.6		71.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	95.7	3.84	"	76.8		125	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	163	10.0	"	320		50.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1470	50.0	"	1600		92.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1440	50.0	"	1600		89.9	50-150				
N-MeFOSE	840	40.0	"	800		105	50-150				
N-MeFOSA	72.1	4.00	"	80.0		90.1	50-150				
N-EtFOSE	792	40.0	"	800		99.0	50-150				
N-EtFOSA	76.0	4.00	"	80.0		95.0	50-150				
Surrogate: M3PFBS	*53.5*		"	*46.6*		*115*	*25-150*				
Surrogate: M5PFHxA	*58.7*		"	*50.0*		*117*	*25-150*				
Surrogate: M4PFHpA	*63.3*		"	*50.0*		*127*	*25-150*				
Surrogate: M3PFHxS	*61.3*		"	*47.4*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*58.1*		"	*50.0*		*116*	*25-150*				
Surrogate: M6PFDA	*26.2*		"	*25.0*		*105*	*25-150*				
Surrogate: M7PFUdA	*32.1*		"	*25.0*		*129*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*29.4*		"	*25.0*		*117*	*25-150*				
Surrogate: M2PFTeDA	*19.1*		"	*25.0*		*76.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.47*		"	*200*		*2.74*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*46.5*		"	*47.9*		*97.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*48.8*		"	*100*		*48.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*42.6*		"	*50.0*		*85.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*64.2*		"	*100*		*64.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*67.7*		"	*100*		*67.7*	*25-150*				
Surrogate: M2-6:2 FTS	*58.3*		"	*95.1*		*61.3*	*25-200*				
Surrogate: M2-8:2 FTS	*61.7*		"	*96.0*		*64.3*	*25-200*				
Surrogate: M9PFNA	*28.6*		"	*25.0*		*114*	*25-150*				
Surrogate: M2-4:2 FTS	*68.8*		"	*93.8*		*73.4*	*25-150*				
Surrogate: d-N-MeFOSA	*31.2*		"	*50.0*		*62.4*	*25-150*				
Surrogate: d-N-EtFOSA	*24.5*		"	*50.0*		*49.0*	*25-150*				
Surrogate: M3HFPO-DA	*255*		"	*200*		*127*	*25-150*				
Surrogate: d9-N-EtFOSE	*204*		"	*500*		*40.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*304*		"	*500*		*60.8*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
LCS (BK31413-BS2)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	15.1	3.54	ng/L	14.2		107	50-150				
Perfluorohexanoic acid (PFHxA)	16.2	4.00	"	16.0		102	50-150				
Perfluoroheptanoic acid (PFHpA)	10.7	4.00	"	16.0		67.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	15.8	3.66	"	14.6		108	50-150				
Perfluorooctanoic acid (PFOA)	16.5	4.00	"	16.0		103	50-150				
Perfluorooctanesulfonic acid (PFOS)	14.6	3.72	"	14.9		98.1	50-150				
Perfluorononanoic acid (PFNA)	17.9	4.00	"	16.0		112	50-150				
Perfluorodecanoic acid (PFDA)	16.5	4.00	"	16.0		103	50-150				
Perfluoroundecanoic acid (PFUnA)	16.4	4.00	"	16.0		102	50-150				
Perfluorododecanoic acid (PFDoA)	19.8	4.00	"	16.0		124	50-150				
Perfluorotridecanoic acid (PFTrDA)	26.6	4.00	"	16.0		166	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	19.5	4.00	"	16.0		122	50-150				
N-MeFOSAA	17.9	4.00	"	16.0		112	50-150				
N-EtFOSAA	15.6	4.00	"	16.0		97.7	50-150				
Perfluoropentanoic acid (PFPeA)	32.8	8.00	"	32.0		102	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	20.9	4.00	"	16.0		131	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	14.9	3.82	"	15.3		97.6	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	16.1	3.86	"	15.4		105	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	79.1	15.2	"	60.8		130	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	71.5	15.4	"	61.4		116	50-150				
Perfluoro-n-butanoic acid (PFBA)	53.1	16.0	"	64.0		83.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	32.4	7.12	"	28.5		114	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	45.2	8.00	"	32.0		141	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	4.45	8.00	"	32.0		13.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	52.8	8.00	"	32.0		165	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	16.5	3.76	"	15.0		110	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	67.1	15.0	"	60.0		112	50-150				
HFPO-DA (Gen-X)	32.9	16.0	"	32.0		103	50-150				
11CL-PF3OUdS	38.4	15.1	"	30.2		127	50-150				
9CL-PF3ONS	38.9	15.0	"	29.9		130	50-150				
ADONA	29.6	15.1	"	30.2		98.0	50-150				
Perfluorododecanesulfonic acid (PFDoS)	11.8	3.88	"	15.5		76.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	20.4	3.84	"	15.4		133	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	39.5	10.0	"	64.0		61.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	368	50.0	"	320		115	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	440	50.0	"	320		138	50-150				
N-MeFOSE	238	40.0	"	160		149	50-150				
N-MeFOSA	18.3	4.00	"	16.0		114	50-150				
N-EtFOSE	200	40.0	"	160		125	50-150				
N-EtFOSA	14.2	4.00	"	16.0		88.6	50-150				
Surrogate: M3PFBS	*49.0*		*"*	*46.6*		*105*	*25-150*				
Surrogate: M5PFHxA	*53.3*		*"*	*50.0*		*107*	*25-150*				
Surrogate: M4PFHpA	*69.4*		*"*	*50.0*		*139*	*25-150*				
Surrogate: M3PFHxS	*51.5*		*"*	*47.4*		*109*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*51.6*		*"*	*50.0*		*103*	*25-150*				
Surrogate: M6PFDA	*29.3*		*"*	*25.0*		*117*	*25-150*				
Surrogate: M7PFUdA	*31.7*		*"*	*25.0*		*127*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
LCS (BK31413-BS2)									Prepared: 11/21/2023 Analyzed: 11/22/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.1*		*ng/L*	*25.0*		*104*	*25-150*				
Surrogate: M2PFTeDA	*15.6*		*"*	*25.0*		*62.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.75*		*"*	*200*		*2.87*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*45.0*		*"*	*47.9*		*94.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*46.4*		*"*	*100*		*46.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*38.8*		*"*	*50.0*		*77.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*61.2*		*"*	*100*		*61.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*67.7*		*"*	*100*		*67.7*	*25-150*				
Surrogate: M2-6:2 FTS	*44.8*		*"*	*95.1*		*47.1*	*25-200*				
Surrogate: M2-8:2 FTS	*62.3*		*"*	*96.0*		*64.9*	*25-200*				
Surrogate: M9PFNA	*25.5*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M2-4:2 FTS	*58.3*		*"*	*93.8*		*62.2*	*25-150*				
Surrogate: d-N-MeFOSA	*26.1*		*"*	*50.0*		*52.2*	*25-150*				
Surrogate: d-N-EtFOSA	*23.8*		*"*	*50.0*		*47.7*	*25-150*				
Surrogate: M3HFPO-DA	*246*		*"*	*200*		*123*	*25-150*				
Surrogate: d9-N-EtFOSE	*166*		*"*	*500*		*33.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*244*		*"*	*500*		*48.9*	*25-150*				
Duplicate (BK31413-DUP1)	*Source sample: 23K0971-08 (Duplicate)								Prepared: 11/21/2023 Analyzed: 11/22/2023		
Perfluorobutanesulfonic acid (PFBS)	ND	1.77	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	2.00	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	1.83	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	2.00	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	1.86	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	2.00	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	2.00	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	2.00	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"		ND					30	
N-MeFOSAA	ND	2.00	"		ND					30	
N-EtFOSAA	ND	2.00	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	4.00	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.91	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.93	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.60	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.68	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	8.00	"		2.98					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.56	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	4.00	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	4.00	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	4.00	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.88	"		ND					30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
Duplicate (BK31413-DUP1)	*Source sample: 23K0971-08 (Duplicate)								Prepared: 11/21/2023 Analyzed: 11/22/2023		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.50	ng/L		ND					30	
HFPO-DA (Gen-X)	ND	8.00	"		ND					30	
11CL-PF3OUdS	ND	7.56	"		ND					30	
9CL-PF3ONS	ND	7.48	"		ND					30	
ADONA	ND	7.56	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.94	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.92	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	5.00	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	25.0	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	25.0	"		ND					30	
N-MeFOSE	ND	20.0	"		ND					30	
N-MeFOSA	ND	2.00	"		ND					30	
N-EtFOSE	ND	20.0	"		ND					30	
N-EtFOSA	ND	2.00	"		ND					30	
Surrogate: M3PFBS	*28.1*		"	*23.3*		*120*	*25-150*				
Surrogate: M5PFHxA	*29.9*		"	*25.0*		*120*	*25-150*				
Surrogate: M4PFHpA	*34.8*		"	*25.0*		*139*	*25-150*				
Surrogate: M3PFHxS	*34.3*		"	*23.7*		*145*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*30.0*		"	*25.0*		*120*	*25-150*				
Surrogate: M6PFDA	*14.7*		"	*12.5*		*118*	*25-150*				
Surrogate: M7PFUdA	*13.4*		"	*12.5*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*8.76*		"	*12.5*		*70.1*	*25-150*				
Surrogate: M2PFTeDA	*1.66*		"	*12.5*		*13.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.80*		"	*100*		*1.80*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*22.0*		"	*24.0*		*91.9*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*15.7*		"	*50.0*		*31.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*18.4*		"	*25.0*		*73.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*18.3*		"	*50.0*		*36.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*16.8*		"	*50.0*		*33.7*	*25-150*				
Surrogate: M2-6:2 FTS	*35.0*		"	*47.6*		*73.7*	*25-200*				
Surrogate: M2-8:2 FTS	*27.9*		"	*48.0*		*58.2*	*25-200*				
Surrogate: M9PFNA	*16.3*		"	*12.5*		*130*	*25-150*				
Surrogate: M2-4:2 FTS	*37.8*		"	*46.9*		*80.6*	*25-150*				
Surrogate: d-N-MeFOSA	*9.13*		"	*25.0*		*36.5*	*25-150*				
Surrogate: d-N-EtFOSA	*4.56*		"	*25.0*		*18.2*	*25-150*				
Surrogate: M3HFPO-DA	*133*		"	*100*		*133*	*25-150*				
Surrogate: d9-N-EtFOSE	*16.7*		"	*250*		*6.70*	*25-150*				
Surrogate: d7-N-MeFOSE	*38.6*		"	*250*		*15.4*	*25-150*				

Semivolatile Organic Compounds by GC/MS TIC - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Blank (BK31385-BLK1)											Prepared: 11/21/2023 Analyzed: 11/22/2023
Tentatively Identified Compounds	0.00		mg/kg wet								

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31235 - EPA 3550C											
Blank (BK31235-BLK1)											Prepared: 11/20/2023 Analyzed: 11/21/2023
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*68.8*		*"*	*66.4*		*104*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*56.0*		*"*	*66.4*		*84.3*	*30-150*				
LCS (BK31235-BS1)											Prepared: 11/20/2023 Analyzed: 11/21/2023
4,4'-DDD	31.5	1.64	ug/kg wet	33.2		94.8	40-140				
4,4'-DDE	29.5	1.64	"	33.2		88.9	40-140				
4,4'-DDT	33.8	1.64	"	33.2		102	40-140				
Aldrin	28.1	1.64	"	33.2		84.5	40-140				
alpha-BHC	31.3	1.64	"	33.2		94.2	40-140				
alpha-Chlordane	29.7	1.64	"	33.2		89.3	40-140				
beta-BHC	30.2	1.64	"	33.2		90.8	40-140				
delta-BHC	28.0	1.64	"	33.2		84.2	40-140				
Dieldrin	29.2	1.64	"	33.2		88.0	40-140				
Endosulfan I	31.0	1.64	"	33.2		93.2	40-140				
Endosulfan II	31.2	1.64	"	33.2		93.9	40-140				
Endosulfan sulfate	29.3	1.64	"	33.2		88.2	40-140				
Endrin	31.5	1.64	"	33.2		94.7	40-140				
Endrin aldehyde	27.9	1.64	"	33.2		84.0	40-140				
Endrin ketone	31.6	1.64	"	33.2		95.1	40-140				
gamma-BHC (Lindane)	31.3	1.64	"	33.2		94.1	40-140				
gamma-Chlordane	30.7	1.64	"	33.2		92.4	40-140				
Heptachlor	31.4	1.64	"	33.2		94.6	40-140				
Heptachlor epoxide	30.6	1.64	"	33.2		92.2	40-140				
Methoxychlor	42.0	8.22	"	33.2		126	40-140				
Surrogate: Decachlorobiphenyl	*72.2*		*"*	*66.4*		*109*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*59.1*		*"*	*66.4*		*89.0*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31235 - EPA 3550C											
Matrix Spike (BK31235-MS1)	*Source sample: 23K0891-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
4,4'-DDD	28.5	1.80	ug/kg dry	36.3	ND	78.7	30-150				
4,4'-DDE	27.2	1.80	"	36.3	ND	75.1	30-150				
4,4'-DDT	32.7	1.80	"	36.3	ND	90.1	30-150				
Aldrin	27.0	1.80	"	36.3	ND	74.5	30-150				
alpha-BHC	29.6	1.80	"	36.3	ND	81.6	30-150				
alpha-Chlordane	28.0	1.80	"	36.3	ND	77.2	30-150				
beta-BHC	28.6	1.80	"	36.3	ND	78.8	30-150				
delta-BHC	27.3	1.80	"	36.3	ND	75.2	30-150				
Dieldrin	27.3	1.80	"	36.3	ND	75.3	30-150				
Endosulfan I	28.7	1.80	"	36.3	ND	79.3	30-150				
Endosulfan II	28.4	1.80	"	36.3	ND	78.3	30-150				
Endosulfan sulfate	28.0	1.80	"	36.3	ND	77.1	30-150				
Endrin	29.7	1.80	"	36.3	ND	81.8	30-150				
Endrin aldehyde	25.1	1.80	"	36.3	ND	69.2	30-150				
Endrin ketone	30.1	1.80	"	36.3	ND	83.0	30-150				
gamma-BHC (Lindane)	29.6	1.80	"	36.3	ND	81.8	30-150				
gamma-Chlordane	28.1	1.80	"	36.3	ND	77.5	30-150				
Heptachlor	30.0	1.80	"	36.3	ND	82.8	30-150				
Heptachlor epoxide	28.6	1.80	"	36.3	ND	78.7	30-150				
Methoxychlor	34.6	8.98	"	36.3	ND	95.5	30-150				
Surrogate: Decachlorobiphenyl	*67.8*		*"*	*72.5*		*93.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*56.1*		*"*	*72.5*		*77.4*	*30-150*				
Matrix Spike Dup (BK31235-MSD1)	*Source sample: 23K0891-01 (Matrix Spike Dup)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
4,4'-DDD	33.7	1.80	ug/kg dry	36.3	ND	93.0	30-150		16.7	30	
4,4'-DDE	31.9	1.80	"	36.3	ND	87.9	30-150		15.7	30	
4,4'-DDT	36.2	1.80	"	36.3	ND	99.9	30-150		10.3	30	
Aldrin	30.4	1.80	"	36.3	ND	83.7	30-150		11.7	30	
alpha-BHC	33.0	1.80	"	36.3	ND	91.0	30-150		10.9	30	
alpha-Chlordane	32.2	1.80	"	36.3	ND	88.8	30-150		13.9	30	
beta-BHC	31.8	1.80	"	36.3	ND	87.8	30-150		10.7	30	
delta-BHC	29.3	1.80	"	36.3	ND	80.9	30-150		7.34	30	
Dieldrin	31.6	1.80	"	36.3	ND	87.2	30-150		14.6	30	
Endosulfan I	33.5	1.80	"	36.3	ND	92.3	30-150		15.2	30	
Endosulfan II	33.8	1.80	"	36.3	ND	93.1	30-150		17.3	30	
Endosulfan sulfate	31.4	1.80	"	36.3	ND	86.7	30-150		11.7	30	
Endrin	33.6	1.80	"	36.3	ND	92.7	30-150		12.6	30	
Endrin aldehyde	31.4	1.80	"	36.3	ND	86.7	30-150		22.4	30	
Endrin ketone	33.9	1.80	"	36.3	ND	93.4	30-150		11.8	30	
gamma-BHC (Lindane)	33.2	1.80	"	36.3	ND	91.5	30-150		11.2	30	
gamma-Chlordane	32.5	1.80	"	36.3	ND	89.7	30-150		14.5	30	
Heptachlor	33.2	1.80	"	36.3	ND	91.6	30-150		10.1	30	
Heptachlor epoxide	33.0	1.80	"	36.3	ND	90.9	30-150		14.4	30	
Methoxychlor	47.0	8.98	"	36.3	ND	130	30-150		30.4	30	Non-dir.
Surrogate: Decachlorobiphenyl	*78.1*		*"*	*72.5*		*108*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*62.5*		*"*	*72.5*		*86.2*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31235 - EPA 3550C											
Blank (BK31235-BLK2)											Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0488*		*"*	*0.0664*		*73.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0508*		*"*	*0.0664*		*76.5*	*30-140*				
LCS (BK31235-BS2)											Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	0.278	0.0166	mg/kg wet	0.332		83.6	40-130				
Aroclor 1260	0.293	0.0166	"	0.332		88.1	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0535*		*"*	*0.0664*		*80.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0555*		*"*	*0.0664*		*83.5*	*30-140*				
Matrix Spike (BK31235-MS2)	*Source sample: 23K0891-01 (Matrix Spike)										Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	0.288	0.0181	mg/kg dry	0.363	ND	79.5	40-140				
Aroclor 1260	0.325	0.0181	"	0.363	ND	89.5	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0548*		*"*	*0.0725*		*75.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0627*		*"*	*0.0725*		*86.5*	*30-140*				
Matrix Spike Dup (BK31235-MSD2)	*Source sample: 23K0891-01 (Matrix Spike Dup)										Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	0.278	0.0181	mg/kg dry	0.363	ND	76.7	40-140		3.56	50	
Aroclor 1260	0.315	0.0181	"	0.363	ND	86.8	40-140		3.11	50	
Surrogate: Tetrachloro-m-xylene	*0.0526*		*"*	*0.0725*		*72.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0616*		*"*	*0.0725*		*85.0*	*30-140*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA41914 - EPA 3015A/1311											
Blank (BA41914-BLK1)								Prepared & Analyzed: 01/30/2024			
Lead	ND	0.00556	mg/L								
LCS (BA41914-BS1)								Prepared & Analyzed: 01/30/2024			
Lead	0.503		ug/mL	0.500		101	80-120				
Duplicate (BA41914-DUP1)	*Source sample: 24A1336-01 (Duplicate)							Prepared & Analyzed: 01/30/2024			
Lead	ND	0.125	mg/L		ND					20	
Leach Fluid Blank (BA41914-LBK1)								Prepared & Analyzed: 01/30/2024			
Lead	ND	0.125	mg/L								
Matrix Spike (BA41914-MS1)	*Source sample: 24A1336-01 (Matrix Spike)							Prepared & Analyzed: 01/30/2024			
Lead	12.3	0.125	mg/L	12.5	ND	98.1	75-125				
Post Spike (BA41914-PS1)	*Source sample: 24A1336-01 (Post Spike)							Prepared & Analyzed: 01/30/2024			
Lead	0.518		ug/mL	0.500	0.00395	103	75-125				
Batch BK31472 - EPA 3050B											
Blank (BK31472-BLK1)								Prepared & Analyzed: 11/22/2023			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	0.536	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31472 - EPA 3050B											
Duplicate (BK31472-DUP1)	*Source sample: 23K1265-02 (Duplicate)							Prepared & Analyzed: 11/22/2023			
Aluminum	8150	4.60	mg/kg dry		7320				10.8	35	
Antimony	ND	2.30	"		ND					35	
Arsenic	3.78	1.38	"		5.15				30.5	35	
Barium	68.7	2.29	"		57.8				17.3	35	
Beryllium	ND	0.046	"		ND					35	
Cadmium	ND	0.276	"		ND					35	
Calcium	1730	4.60	"		1940				11.0	35	
Chromium	15.6	0.460	"		15.3				1.47	35	
Cobalt	7.49	0.367	"		7.62				1.80	35	
Copper	18.1	1.84	"		19.1				5.25	35	
Iron	20200	23.0	"		24800				20.4	35	
Lead	25.9	0.460	"		25.0				3.77	35	
Magnesium	1920	4.60	"		2620				30.9	35	
Manganese	552	0.460	"		530				4.16	35	
Nickel	12.2	0.916	"		11.0				10.3	35	
Potassium	1100	4.60	"		1290				16.1	35	
Selenium	4.82	2.30	"		6.07				23.0	35	
Silver	ND	0.463	"		ND					35	
Sodium	ND	46.0	"		ND					35	
Thallium	ND	2.30	"		ND					35	
Vanadium	30.6	0.916	"		34.3				11.6	35	
Zinc	37.7	2.29	"		37.2				1.35	35	
Matrix Spike (BK31472-MS1)	*Source sample: 23K1265-02 (Matrix Spike)							Prepared & Analyzed: 11/22/2023			
Aluminum	7910	4.60	mg/kg dry	184	7320	324	75-125	High Bias			
Antimony	7.36	2.30	"	23.0	ND	32.0	75-125	Low Bias			
Arsenic	178	1.38	"	184	5.15	94.1	75-125				
Barium	227	2.29	"	184	57.8	92.2	75-125				
Beryllium	3.89	0.046	"	4.60	ND	84.5	75-125				
Cadmium	4.23	0.276	"	4.60	ND	91.9	75-125				
Calcium	1540	4.60	"	91.9	1940	NR	75-125	Low Bias			
Chromium	33.2	0.460	"	18.4	15.3	97.2	75-125				
Cobalt	53.6	0.367	"	46.0	7.62	100	75-125				
Copper	43.6	1.84	"	23.0	19.1	106	75-125				
Iron	17800	23.0	"	91.9	24800	NR	75-125	Low Bias			
Lead	59.5	0.460	"	46.0	25.0	75.1	75-125				
Magnesium	2070	4.60	"	91.9	2620	NR	75-125	Low Bias			
Manganese	412	0.460	"	46.0	530	NR	75-125	Low Bias			
Nickel	55.6	0.916	"	46.0	11.0	97.1	75-125				
Potassium	1280	4.60	"	91.9	1290	NR	75-125	Low Bias			
Selenium	174	2.30	"	184	6.07	91.4	75-125				
Silver	ND	0.463	"	4.60	ND		75-125	Low Bias			
Sodium	48.2	46.0	"	91.9	ND	52.5	75-125	Low Bias			
Thallium	154	2.30	"	184	ND	83.9	75-125				
Vanadium	72.3	0.916	"	46.0	34.3	82.6	75-125				
Zinc	82.2	2.29	"	46.0	37.2	98.0	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31472 - EPA 3050B											
Post Spike (BK31472-PS1)	*Source sample: 23K1265-02 (Post Spike)							Prepared & Analyzed: 11/22/2023			
Aluminum	80.3		ug/mL	2.00	79.6	34.9	75-125	Low Bias			
Antimony	0.232		"	0.250	0.007	89.9	75-125				
Arsenic	1.90		"	2.00	0.056	92.3	75-125				
Barium	2.52		"	2.00	0.629	94.7	75-125				
Beryllium	0.041		"	0.0500	-0.005	82.2	75-125				
Cadmium	0.044		"	0.0500	-0.002	89.0	75-125				
Calcium	21.7		"	1.00	21.1	63.3	75-125	Low Bias			
Chromium	0.352		"	0.200	0.167	92.5	75-125				
Cobalt	0.554		"	0.500	0.083	94.2	75-125				
Copper	0.461		"	0.250	0.208	101	75-125				
Iron	264		"	1.00	270	NR	75-125	Low Bias			
Lead	0.701		"	0.500	0.272	85.8	75-125				
Magnesium	28.9		"	1.00	28.5	39.4	75-125	Low Bias			
Manganese	6.15		"	0.500	5.76	76.3	75-125				
Nickel	0.590		"	0.500	0.119	94.2	75-125				
Potassium	14.5		"	1.00	14.1	39.5	75-125	Low Bias			
Selenium	1.85		"	2.00	0.066	89.0	75-125				
Silver	-0.011		"	0.0500	-0.063		75-125	Low Bias			
Sodium	0.363		"	1.00	-1.23	36.3	75-125	Low Bias			
Thallium	1.62		"	2.00	-0.023	80.8	75-125				
Vanadium	0.830		"	0.500	0.373	91.4	75-125				
Zinc	0.870		"	0.500	0.405	93.1	75-125				
Reference (BK31472-SRM1)								Prepared & Analyzed: 11/22/2023			
Aluminum	8240	4.17	mg/kg wet	9490		86.9	45.4-128.6				
Antimony	69.0	2.08	"	248		27.8	3-103.2				
Arsenic	137	1.25	"	163		84.1	68.7-100.6				
Barium	324	2.08	"	319		102	82.5-115.7				
Beryllium	105	0.042	"	119		88.6	77.7-109.2				
Cadmium	118	0.250	"	130		90.8	75.2-106.2				
Calcium	4860	4.17	"	5000		97.2	80.6-114.4				
Chromium	149	0.417	"	153		97.6	77.8-111.8				
Cobalt	150	0.333	"	153		98.0	79.1-109.8				
Copper	254	1.67	"	245		104	80.4-111				
Iron	7720	20.8	"	7540		102	69.8-144.6				
Lead	201	0.417	"	220		91.3	80-113.6				
Magnesium	2070	4.17	"	1980		105	85.9-129.3				
Manganese	429	0.417	"	431		99.6	79.6-114.2				
Nickel	170	0.830	"	175		97.2	76.6-108.6				
Potassium	1590	4.17	"	1570		101	80.9-131.2				
Selenium	160	2.08	"	156		102	80.8-118.6				
Silver	67.6	0.420	"	82.9		81.6	76.7-114.7				
Sodium	471	41.7	"	453		104	72.2-119.7				
Thallium	82.8	2.08	"	99.4		83.3	75.8-110.7				
Vanadium	157	0.830	"	170		92.4	75.3-114.1				
Zinc	373	2.08	"	201		185	79.6-115.92	High Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31609 - EPA 3015A/1311											
Blank (BL31609-BLK1)										Prepared & Analyzed: 12/22/2023	
Arsenic	ND	0.017	mg/L								
Barium	ND	0.028	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Lead	ND	0.006	"								
Selenium	ND	0.028	"								
Silver	ND	0.006	"								
LCS (BL31609-BS1)										Prepared & Analyzed: 12/22/2023	
Arsenic	2.13		ug/mL	2.00		106	80-120				
Barium	2.21		"	2.00		111	80-120				
Cadmium	0.054		"	0.0500		108	80-120				
Chromium	0.214		"	0.200		107	80-120				
Lead	0.553		"	0.500		111	80-120				
Selenium	2.04		"	2.00		102	80-120				
Silver	0.049		"	0.0500		98.7	80-120				
Duplicate (BL31609-DUP1)	*Source sample: 23L1129-11 (Duplicate)									Prepared & Analyzed: 12/22/2023	
Arsenic	ND	0.375	mg/L		ND					20	
Barium	ND	0.625	"		ND					20	
Cadmium	ND	0.075	"		ND					20	
Chromium	ND	0.125	"		ND					20	
Lead	ND	0.125	"		ND					20	
Selenium	ND	0.625	"		ND					20	
Silver	ND	0.125	"		ND					20	
Leach Fluid Blank (BL31609-LBK1)										Prepared & Analyzed: 12/22/2023	
Arsenic	ND	0.375	mg/L								
Barium	ND	0.625	"								
Cadmium	ND	0.075	"								
Chromium	ND	0.125	"								
Lead	ND	0.125	"								
Selenium	ND	0.625	"								
Silver	ND	0.125	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL31609 - EPA 3015A/1311											
Matrix Spike (BL31609-MS1)	*Source sample: 23L1129-11 (Matrix Spike)									Prepared & Analyzed: 12/22/2023	
Arsenic	55.7	0.375	mg/L	50.0	ND	111	75-125				
Barium	57.0	0.625	"	50.0	ND	114	75-125				
Cadmium	1.38	0.075	"	1.25	ND	110	75-125				
Chromium	5.53	0.125	"	5.00	ND	111	75-125				
Lead	14.1	0.125	"	12.5	ND	113	75-125				
Selenium	54.8	0.625	"	50.0	ND	110	75-125				
Silver	1.28	0.125	"	1.25	ND	102	75-125				
Post Spike (BL31609-PS1)	*Source sample: 23L1129-11 (Post Spike)									Prepared & Analyzed: 12/22/2023	
Arsenic	2.18		ug/mL	2.00	-0.005	109	75-125				
Barium	2.25		"	2.00	0.010	112	75-125				
Cadmium	0.054		"	0.0500	-0.0003	108	75-125				
Chromium	0.219		"	0.200	0.002	109	75-125				
Lead	0.552		"	0.500	0.003	110	75-125				
Selenium	2.16		"	2.00	-0.002	108	75-125				
Silver	0.047		"	0.0500	-0.00007	93.4	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA41816 - EPA SW846-7470A											
Blank (BA41816-BLK1)								Prepared & Analyzed: 01/29/2024			
Mercury	ND	0.000200	mg/L								
Blank (BA41816-BLK2)								Prepared & Analyzed: 01/29/2024			
Mercury	ND	0.000200	mg/L								
LCS (BA41816-BS1)								Prepared & Analyzed: 01/29/2024			
Mercury	0.00211	0.000200	mg/L	0.00200		106	80-120				
LCS (BA41816-BS2)								Prepared & Analyzed: 01/29/2024			
Mercury	0.00218	0.000200	mg/L	0.00200		109	80-120				
Leach Fluid Blank (BA41816-LBK1)								Prepared & Analyzed: 01/29/2024			
Mercury	ND	0.000200	mg/L								
Batch BK31234 - EPA 7473 soil											
Blank (BK31234-BLK1)								Prepared & Analyzed: 11/19/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31234-DUP1)	*Source sample: 23K0956-01 (Duplicate)							Prepared & Analyzed: 11/19/2023			
Mercury	ND	0.0319	mg/kg dry		0.0486					35	
Matrix Spike (BK31234-MS1)	*Source sample: 23K0956-01 (Matrix Spike)							Prepared & Analyzed: 11/19/2023			
Mercury	0.484		mg/kg	0.500	0.0457	87.6	75-125				
Reference (BK31234-SRM1)								Prepared & Analyzed: 11/19/2023			
Mercury	19.433		mg/kg	18.2		107	59.9-140.1				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31420 - EPA 7473 soil											
Blank (BK31420-BLK1)								Prepared & Analyzed: 11/21/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31420-DUP1)	*Source sample: 23K0922-01 (Duplicate)							Prepared & Analyzed: 11/21/2023			
Mercury	0.435	0.0346	mg/kg dry		0.539				21.3	35	
Matrix Spike (BK31420-MS1)	*Source sample: 23K0922-01 (Matrix Spike)							Prepared & Analyzed: 11/21/2023			
Mercury	1.03		mg/kg	0.500	0.467	113	75-125				
Reference (BK31420-SRM1)								Prepared & Analyzed: 11/21/2023			
Mercury	17.843		mg/kg	18.2		98.0	59.9-140.1				
Batch BL31603 - EPA SW846-7470A											
Blank (BL31603-BLK1)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.000200	mg/L								
Blank (BL31603-BLK2)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.000200	mg/L								
LCS (BL31603-BS1)								Prepared & Analyzed: 12/22/2023			
Mercury	0.00193	0.000200	mg/L	0.00200		96.3	80-120				
LCS (BL31603-BS2)								Prepared & Analyzed: 12/22/2023			
Mercury	0.00218	0.000200	mg/L	0.00200		109	80-120				
Leach Fluid Blank (BL31603-LBK1)								Prepared & Analyzed: 12/22/2023			
Mercury	ND	0.000200	mg/L								

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31294 - Analysis Preparation Soil											
Blank (BK31294-BLK1)								Prepared & Analyzed: 11/20/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK31294-DUP1)	*Source sample: 23K1070-01 (Duplicate)							Prepared & Analyzed: 11/20/2023			
Cyanide, total	ND	0.543	mg/kg dry		ND					15	
Matrix Spike (BK31294-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared & Analyzed: 11/20/2023			
Cyanide, total	9.77	0.543	mg/kg dry	10.9	ND	90.0	79.6-107				
Matrix Spike Dup (BK31294-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/20/2023			
Cyanide, total	9.99	0.543	mg/kg dry	10.9	ND	92.0	79.6-107		2.20	200	
Reference (BK31294-SRM1)								Prepared & Analyzed: 11/20/2023			
Cyanide, total	114		ug/mL	131		86.7	44.4-156.5				
Batch BK31311 - EPA SW846-3060											
Blank (BK31311-BLK1)								Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK31311-DUP1)	*Source sample: 23K1070-01 (Duplicate)							Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	10.9	0.543	mg/kg dry		9.82				10.1	35	
Matrix Spike (BK31311-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	27.6	0.543	mg/kg dry	21.7	9.82	81.8	75-125				
Matrix Spike Dup (BK31311-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	29.5	0.543	mg/kg dry	21.7	9.82	90.8	75-125		6.84	200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31311 - EPA SW846-3060											
Reference (BK31311-SRM1)								Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	199		mg/L	227		87.7	42.3-157.7				
Batch BL31191 - Analysis Preparation											
Duplicate (BL31191-DUP1)	*Source sample: 23L1095-03 (Duplicate)							Prepared & Analyzed: 12/18/2023			
pH	8.92	0.500	pH units		8.91				0.112	10	

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31369 - % Solids Prep											
Duplicate (BK31369-DUP1)	*Source sample: 23K0980-04 (23SP5 (25-27.5 ft))								Prepared & Analyzed: 11/21/2023		
% Solids	81.4	0.100	%		81.8				0.567	20	
Batch BK31378 - % Solids Prep											
Duplicate (BK31378-DUP1)	*Source sample: 23K1073-01 (Duplicate)								Prepared & Analyzed: 11/21/2023		
% Solids	96.2	0.100	%		96.1				0.103	20	

Leachate Preparations - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA41478 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BA41478-BLK1)									Prepared: 01/23/2024 Analyzed: 01/24/2024		
TCLP Extraction	Completed	1.00	N/A								
Batch BA41544 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BA41544-BLK1)									Prepared: 01/24/2024 Analyzed: 01/25/2024		
TCLP Extraction	Completed	1.00	N/A								
Batch BL31522 - EPA SW 846-1311 TCLP ext. for metals											
Blank (BL31522-BLK1)									Prepared: 12/21/2023 Analyzed: 12/22/2023		
TCLP Extraction	Completed	1.00	N/A								

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K0980-01	23SP5 (0-2.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-02	23SP5 (12.5-15 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-03	23SP5 (15-17.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-04	23SP5 (25-27.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-05	23SP6 (0-2.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-06	23SP6 (12.5-15 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-07	23SP6 (15-17.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-08	23SP6 (22.5-25 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-09	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K0980-10	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-09	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
S-08	The recovery of this surrogate was outside of QC limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PCB-I	PCB calculations are based uoon the average response of 5 peaks for each Aroclor. For this sample an internference was present and the analyst was unable to use all 5 peaks.
N	The Tentatively Identified Compound reported indicates the presence of an possible analyte or class of analyte that has been 'tentatively identified' and the associated numerical value represents its estimated concentration.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-HI	The internal std associated with this target compound did not meet acceptance criteria (area >200% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
EXT-Temp	Extraction temperture slightly exceeded acceptance range.
EXT-COMP	Completed
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to include TCLP Lead on Samples -01, -02, -05, -06 and -07, and TCLP Mercury on Sample -02.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0980

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page _____ of _____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th-st Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) ✓

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) First Ateman

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York ✓
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
~~NY~~ ASP B Package | Other: _____

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP5 (0-2.5 ft.)	S	11/13/23 9:15	TCL +10 VOCs 9 TICs, TCL+20 SVOCs +	(2) 8oz. Jar 4 vials	
23SP5 (12.5-15ft.)		9:30	TICs, Pesticides/PCBs EPA 8081/8082,	1 PFAS plastic	
23SP5 (15-17.5ft.)		9:50	21 PFAS Compounds EPA 1633, 1,4-dioxane		
23SP5 (25-27.5ft)		10:00	EPA 8270 SIM, TAL Metals + Cyanide		
23SP6 (0-2.5 ft.)		11:20	& Hexavalent Chromium		
23SP6 (12.5-15ft)		11:45			
23SP6 (15-17.5ft.)		11:50			
23SP6 (~~25-27.5ft.~~) 22.5-25 ft		12:00			
Trip Blan, Field blank			VOCs	2 vials + 3 vials	
PFAS Field Blank			PFAS	1 PFAS Plastic	

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered
Lab to Filter

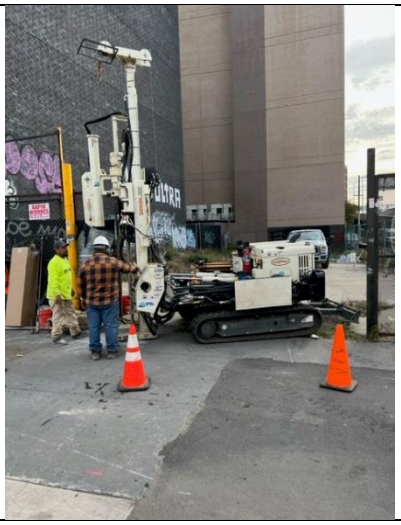
Samples iced/chilled at time of lab pickup? circle Yes or No

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/14/23 12:15 pm	KBaharoski	11/14/23 12:15 pm	KBaharoski	11/14/23 1700
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/14/23 1700 / 1.4 Degrees C

Appendix D

Photographs

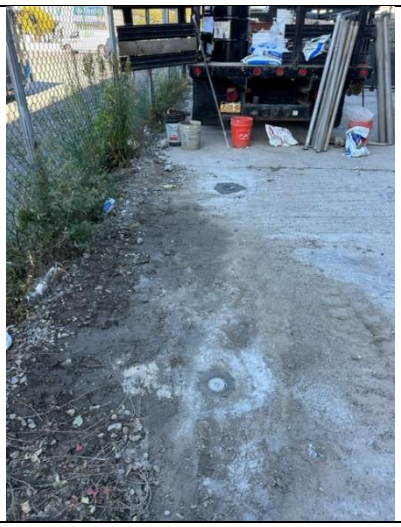
Soil Probe/Monitoring Well Installation – November 2023



Soil Probe/Monitoring Well Installation – November 2023

Soil Vapor Probe Installation – November 2023

Installed Monitoring Well – November 2023



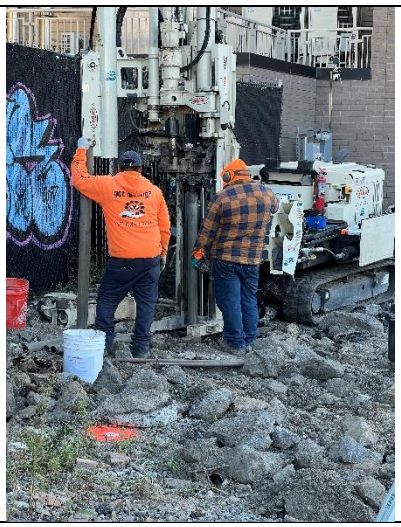
Installed Monitoring Well and Soil Vapor Probes – November 2023

Soil Probe/Monitoring Well Installation – November 2023

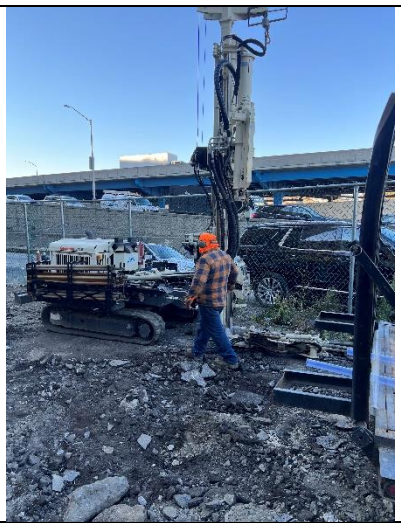
100 EAST 149TH STREET SITE PHOTOGRAPHS

BCP NUMBER C203159

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.



Soil Probe/Monitoring Well Installation – November 2023



Soil Probe/Monitoring Well Installation – November 2023

Groundwater Sample Collection – November 2023

Groundwater Sample Collection – November 2023

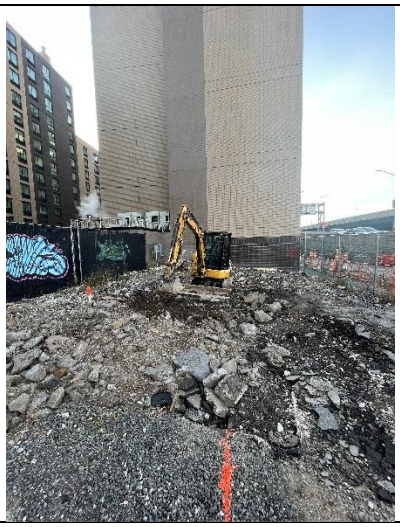
Soil Vapor Sample Collection – November 2023

Soil Vapor Sample Collection – November 2023

100 EAST 149TH STREET SITE PHOTOGRAPHS

BCP NUMBER C203159

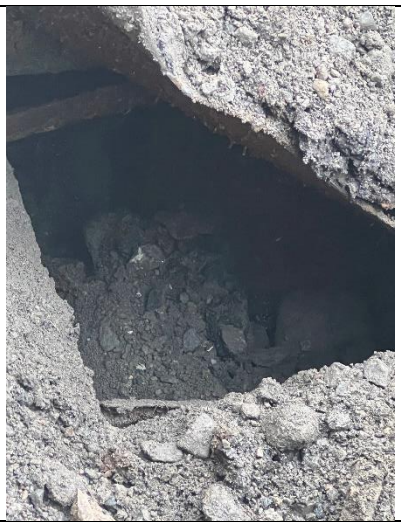
TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.



Site Investigation – December 1, 2023

Site Investigation – December 1, 2023

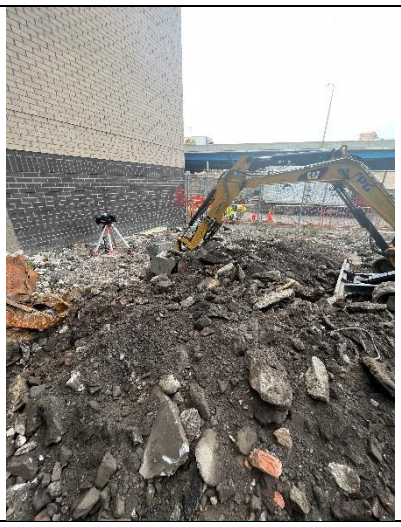
Site Investigation – December 1, 2023



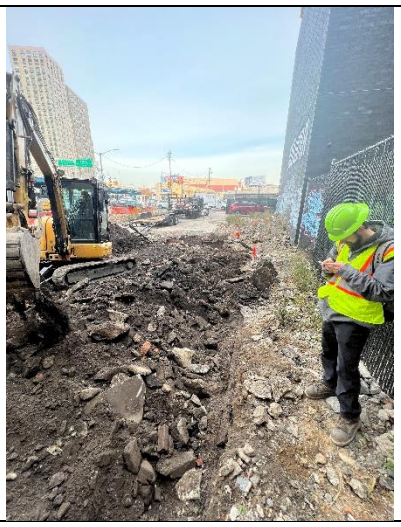
Site Investigation – December 1, 2023

Site Investigation – December 1, 2023

Site Investigation – December 1, 2023



Site Investigation – December 1, 2023



Site Investigation – December 1, 2023

Site Investigation – December 1, 2023

Site Investigation – December 1, 2023

Site Investigation – December 1, 2023

100 EAST 149TH STREET SITE PHOTOGRAPHS

BCP NUMBER C203159

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

Appendix E

Daily Reports

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Monday, November 6, 2023
Weather:	Partly Cloudy, 56-45°F
Wind Direction/Speed:	W 10 to 13 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 2] and DustTrak Aerosol Monitors (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	Firat Ataman	Track Mounted Geoprobe

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was implemented throughout the workday. No exceedances were detected.
Completed the installation of 23SP8 /23MW8, 23MW9/23SP9, 24MW10/23SP10, 23SV5, 23SV5

CAMP Air Monitoring Results

CAMP Station	Upwind CAMP Station	Downwind CAMP Station	Roving (PID)
Odors:	None	NA	None
VOC Action Level Exceedance(s):	None	NA	None
Particulate Action Level Exceedance(s):	None	NA	None
Maximum VOC 15min Avg. Level (ppm):	0.0	NA	0.0
Maximum Particulate 15min Avg. Level (mg/m³):	0.075	NA	None

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Installation of Soil Probes and Collection of Soil Samples - Installation of Monitoring Wells - Installation of Soil Vapor Probes
Comments:	None.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

Installation of 23SP8/23MW8, 23MW9/23SP9, 24MW10/23SP10, 23SV5 and 23SV5

Samples Collected:

The following samples were collected:
23SP-9: (0-2.5 feet, 10-12.5ft, 25 to 30 ft, 25 to 30 ft)
23SP-8: (0-2.5 feet, 10-12.5ft, 14 to 16 ft, 25 to 27.5 ft)
23SP10: (0-2.5 feet, 12.5 to 15 ft, 18, 22 ft, 25 to 27.5 ft, 25 to 30 ft)

Camp Station Moved with the Geoprobe throughout the day

TOUCHSTONE

100 East 149th Street
Bronx, New York

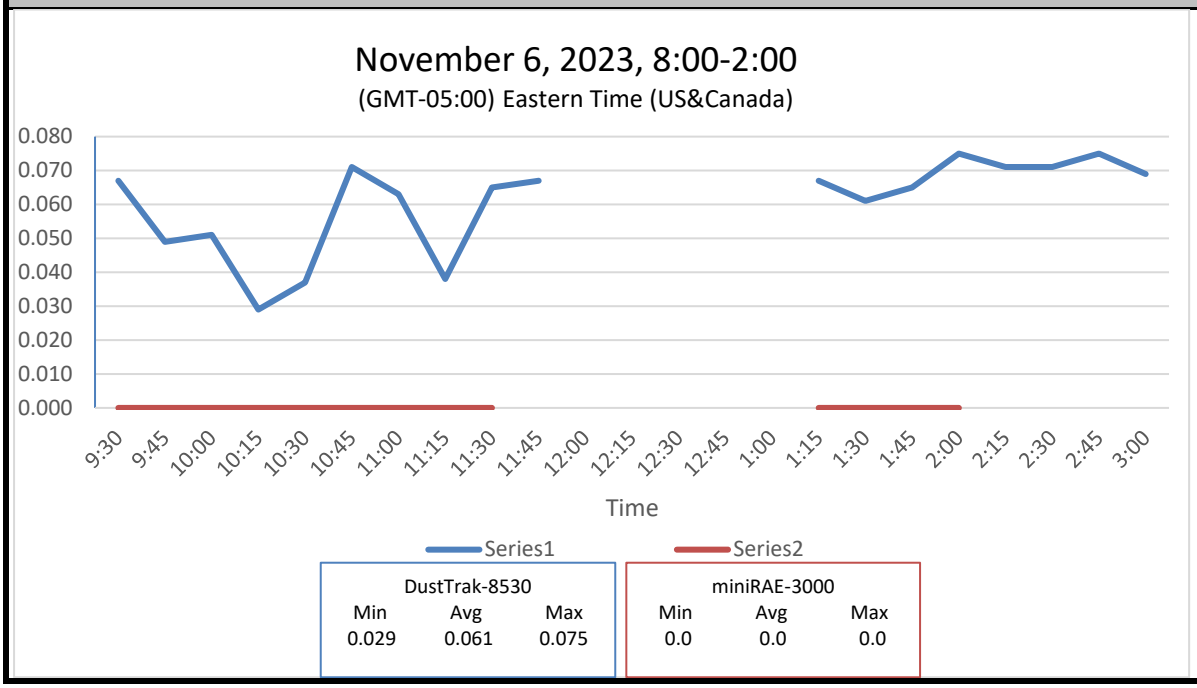
PROPOSED REMEDIAL EXCAVATION PLAN

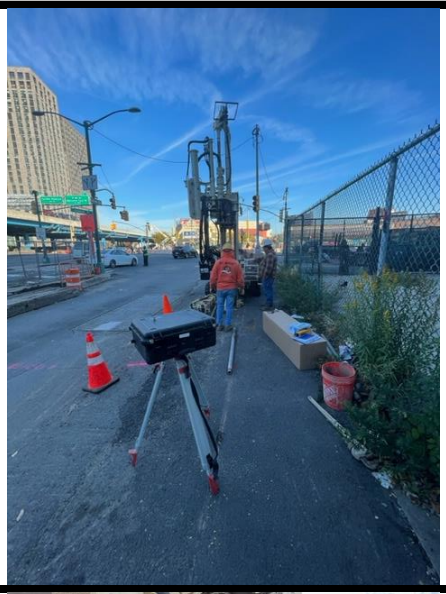
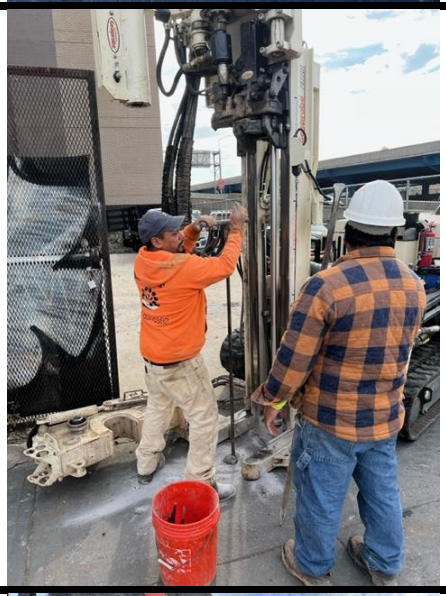
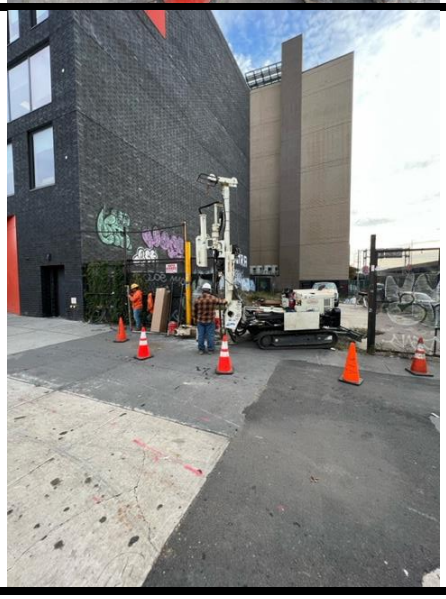
DATE
11/06/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station



100 East 149th Street Photographic Log			
Photograph 1 – Installation of Soil Probe/Monitoring Well			
Photograph 2 – Daylighting holes before installation of the probes			
Photograph 3 – Installation of Soil Probe/Monitoring Well			

mostly cloudy
H: 58° L: 46
Wind speed 12
Wind direction: NE

COMMUNITY AIR MONITORING

Date: 11/6/23

Enter Site Name: 100 E. 149th. St.

Technician Name: Firat Ataman

Time	Meter Readings: PID (ppm) / Dust Meter (ug/m3) (I.e. 0.15/0.021)		Activity Notes (Digging in southern corner, truck#, etc)
7:00:00 AM			CAMP Calibration Overobserved,
7:15:00 AM			PID 0.0/100.1
7:30:00 AM			
7:45:00 AM			
8:00:00 AM	P		F. Ataman onsite.
8:15:00 AM			
8:30:00 AM			
8:45:00 AM			P.G-Environmental on site.
9:00:00 AM			
9:15:00 AM			
9:30:00 AM	0.0	0.067	Jose from Owner's office onsite
9:45:00 AM	0.0	0.049	Opened the gate for us.
10:00:00 AM	0.0	0.051	
10:15:00 AM	0.0	0.029	
10:30:00 AM	0.0	0.037	
10:45:00 AM	0.0	0.071	
11:00:00 AM	0.0	0.063	
11:15:00 AM	0.0	0.068	
11:30:00 AM	0.0	0.065	
11:45:00 AM	0.0	0.067	
12:00:00 PM			
12:15:00 PM			No activities lunch break
12:30:00 PM			
12:45:00 PM			
1:00:00 PM			
1:15:00 PM	0.0	0.067	

Time	Meter Readings: PID (ppm) / Dust Meter (ug/m3) (I.e. 0.15/0.021)		Activity Notes (Digging in southern corner, truck#, etc)
1:30:00 PM	0.0	0.061	
1:45:00 PM	0.0	0.065	
2:00:00 PM	0.0	0.067	
2:15:00 PM	0.0	0.075	
2:30:00 PM	0.0	0.071	
2:45:00 PM	0.0	0.071	
3:00:00 PM	0.0	0.075	Stopped drilling
3:15:00 PM	0.0	0.069	~~Stop~~ Camp is done
3:30:00 PM			F. Haman off-site.
3:45:00 PM			
4:00:00 PM			
4:15:00 PM			
4:30:00 PM			
4:45:00 PM			
5:00:00 PM			

Daily Activity Report

100 East 149th Street Site
100 East 149th Street, Bronx, New York
BCP No. C203159

General Site Information

Date:	Tuesday, November 7, 2023
Weather:	Partly Cloudy, 56-45°F
Wind Direction/Speed:	SW to NW 10 to 12 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 2] and DustTrak Aerosol Monitors (x1)
Visitors:	Erick Bower of the NYSDEC

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	Firat Ataman	Track Mounted Geoprobe

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was implemented throughout the workday. No exceedances were detected.
Completed the installation of 23SP1/23MW1, 23SV1, 23SP2/23MW2.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Downwind CAMP Station	Roving (PID)
Odors:	None	NA	None
VOC Action Level Exceedance(s):	None	NA	None
Particulate Action Level Exceedance(s):	None	NA	None
Maximum VOC 15min Avg. Level (ppm):	0.0	NA	0.0
Maximum Particulate 15min Avg. Level (mg/m³):	0.073	NA	NA

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Installation of Soil Probes and Collection of Soil Samples - Installation of Monitoring Wells - Installation of Soil Vapor Probes
Comments:	None.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

Installation of 23SP1/23MW1, 23SV1, 23SP2/23MW2

Samples Collected:

The following samples were collected:
23SP-1: (0-2.5 feet, 10-12.5ft, 22.5 to 25 ft, 25 to 30 ft)
23SP-2: (0-2.5 feet, 15-17.5ft, 18 to 20 ft, 27.5 to 30 ft)

Camp Station Moved with the Geoprobe throughout the day

TOUCHSTONE

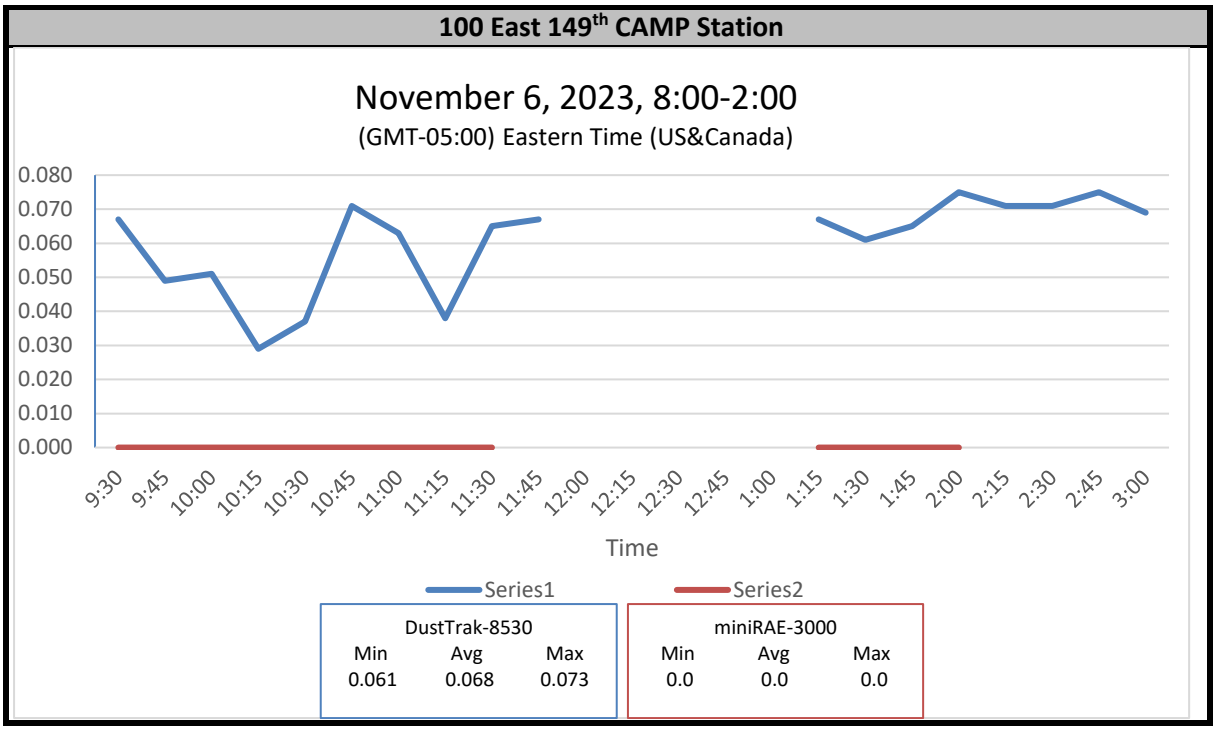
100 East 149th Street
Bronx, New York

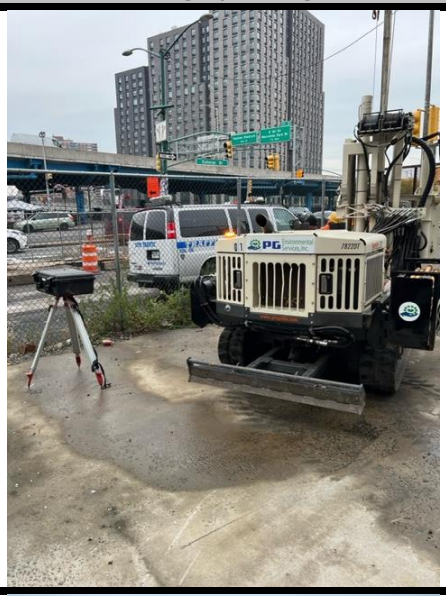
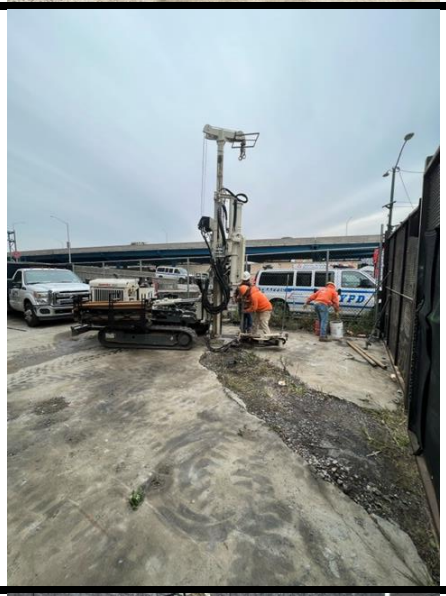
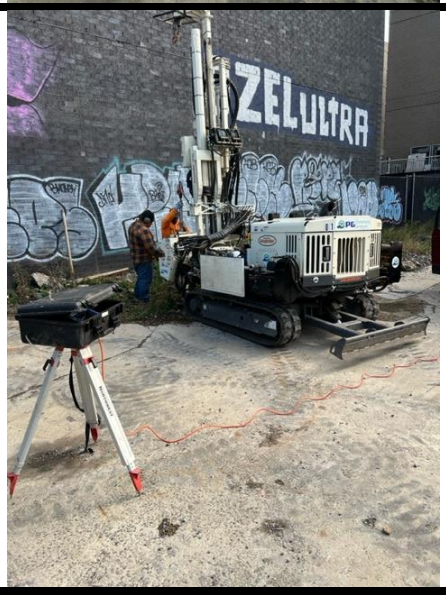
PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/07/2023

PROJECT NO.
C203159

ATTACHMENT A


100 East 149th CAMP Station
November 6, 2023, 8:00-2:00
(GMT-05:00) Eastern Time (US&Canada)
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
9:30
9:45
10:00
10:15
10:30
10:45
11:00
11:15
11:30
11:45
12:00
12:15
12:30
12:45
1:00
1:15
1:30
1:45
2:00
2:15
2:30
2:45
3:00
Time
Series1
Series2
DustTrak-8530
Min 0.061
Avg 0.068
Max 0.073
miniRAE-3000
Min 0.0
Avg 0.0
Max 0.0

100 East 149th Street Photographic Log		
Photograph 1 – Installation of Soil Probe/Monitoring Well		
Photograph 2 – Installation of Soil Probe/Monitoring Well		
Photograph 3 – Installation of Soil Probe/Monitoring Well		

Cloudy H: 50 L: 38
Wind speed: 20
Wind direction SW

COMMUNITY AIR MONITORING

Date: 11/7/2023

Enter Site Name: 100 E. 149th St.

Technician Name: Eliot Ataman

Time	Meter Readings: PID (ppm) / Dust Meter (ug/m3) (I.e. 0.15/0.021)		Activity Notes (Digging in southern corner, truck#, etc)
7:00:00 AM			CAMP Calibration
7:15:00 AM			Dustrak Zeroed.
7:30:00 AM			PID 100/100.0
7:45:00 AM			
8:00:00 AM			
8:15:00 AM			E. Ataman on-site
8:30:00 AM			P.G. on-site
8:45:00 AM			
9:00:00 AM			Got on access to the site.
9:15:00 AM			P.G. getting Geoprobe ready
9:30:00 AM	0.0	0.069	
9:45:00 AM	0.0	0.065	
10:00:00 AM	0.0	0.071	
10:15:00 AM	0.0		No Data recorded
10:30:00 AM	0.0		Dustrak had a battery issue
10:45:00 AM	0.0		
11:00:00 AM	0.0		
11:15:00 AM	0.0		
11:30:00 AM	0.0	0.061	Dustrak fixed and running
11:45:00 AM	0.0	0.063	
12:00:00 PM	0.0	0.067	
12:15:00 PM			
12:30:00 PM			Lunch Break
12:45:00 PM			No activities
1:00:00 PM			
1:15:00 PM	0.0	0.071	

Time	Meter Readings: PID (ppm) / Dust Meter (ug/m3) (I.e. 0.15/0.021)	Activity Notes (Digging in southern corner, truck#, etc)
1:30:00 PM	0.0 0.073	
1:45:00 PM	0.0 0.071	
2:00:00 PM	0.0 0.069	
2:15:00 PM	0.0 0.071	
2:30:00 PM	0.0 0.067	
2:45:00 PM	0.0 0.073	
3:00:00 PM	0.0 0.063	Stopped drilling
3:15:00 PM	0.0 0.067	F. Adamon and P.G. off site.
3:30:00 PM		
3:45:00 PM		
4:00:00 PM		
4:15:00 PM		
4:30:00 PM		
4:45:00 PM		
5:00:00 PM		

Daily Activity Report

100 East 149th Street Site
100 East 149th Street, Bronx, New York
BCP No. C203159

General Site Information

Date:	Wednesday, November 8, 2023
Weather:	Partly Cloudy, 56-45°F
Wind Direction/Speed:	SSE to NW 9 to 12 mph
Touchstone Personnel on Site:	Gabrielle Castro
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 2] and DustTrak Aerosol Monitors (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	Oscar Peralta	Track Mounted Geoprobe

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was implemented throughout the workday. No exceedances were detected.
Completed the installation of 23SP3/23MW3, 23SP4/23MW4, and 23SV2.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Downwind CAMP Station	Roving (PID)
Odors:	None	NA	None
VOC Action Level Exceedance(s):	None	NA	None
Particulate Action Level Exceedance(s):	None	NA	None
Maximum VOC 15min Avg. Level (ppm):	0.0	NA	0.0
Maximum Particulate 15min Avg. Level (mg/m³):	0.068	NA	NA

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Installation of Soil Probes and Collection of Soil Samples - Installation of Monitoring Wells - Installation of Soil Vapor Probes
Comments:	None.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

Installation of 23SP3/23MW3, 23SP4/23MW4, 23SV2

Samples Collected:

The following samples were collected:
23SP-3: (0-2.5 feet, 8-12ft, 12 to 14 ft, 25 to 30 ft)
23SP-4: (0-5 feet, 12-14 ft, 14 to 16 ft, 27.5 to 30 ft)

Camp Station Moved with the Geoprobe throughout the day

TOUCHSTONE

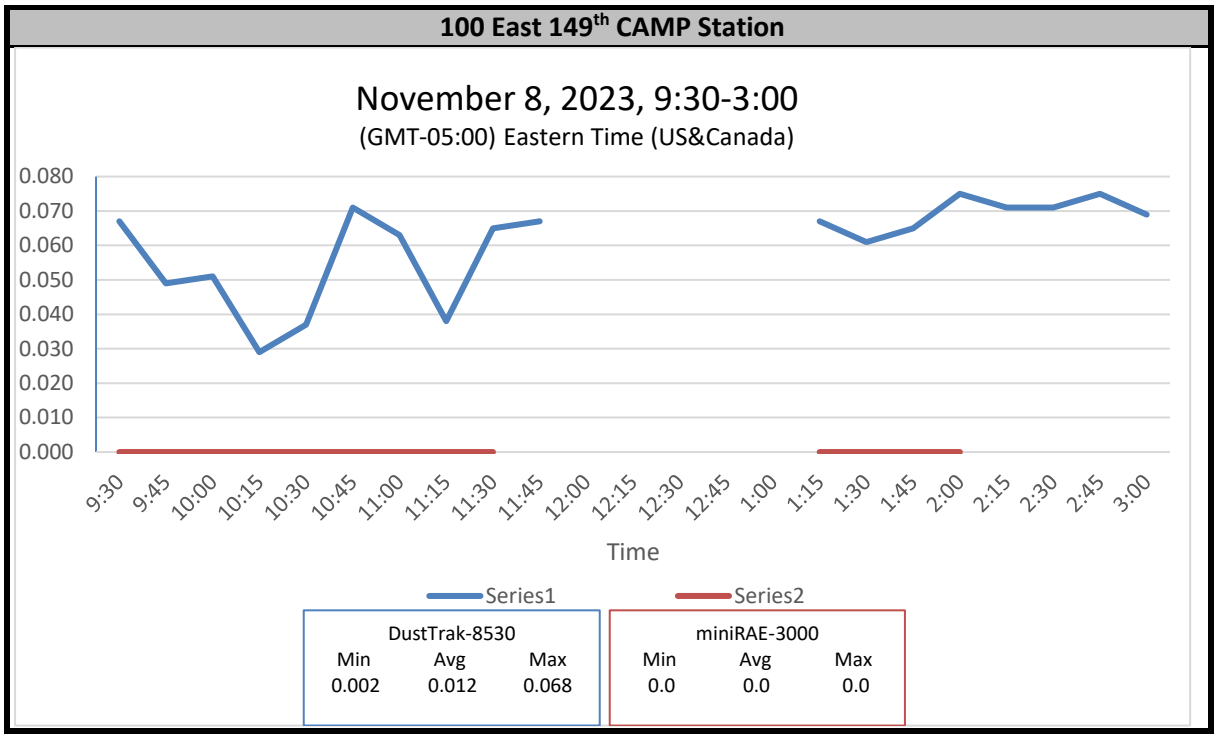
100 East 149th Street
Bronx, New York

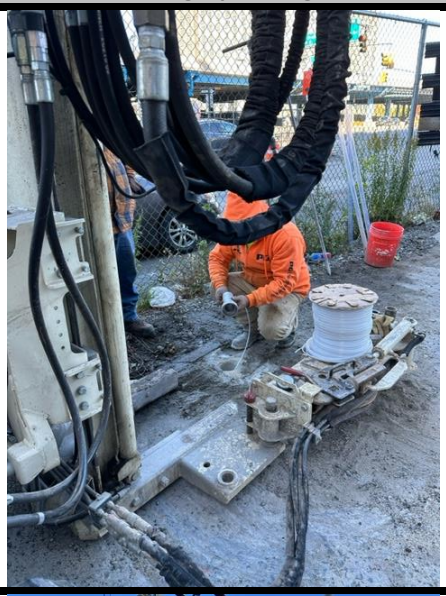
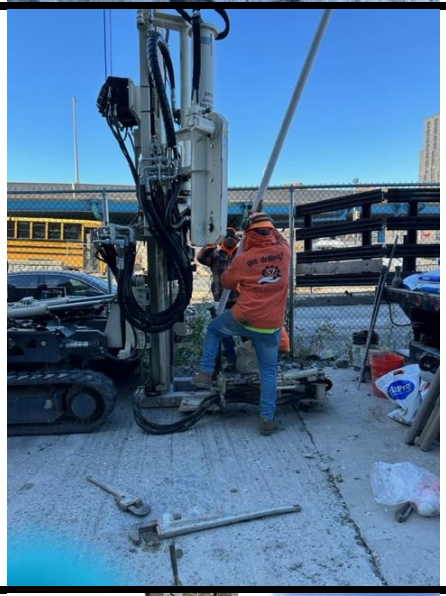
PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/08/2023

PROJECT NO.
C203159

ATTACHMENT A


100 East 149th CAMP Station
November 8, 2023, 9:30-3:00
(GMT-05:00) Eastern Time (US&Canada)
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
9:30
9:45
10:00
10:15
10:30
10:45
11:00
11:15
11:30
11:45
12:00
12:15
12:30
12:45
1:00
1:15
1:30
1:45
2:00
2:15
2:30
2:45
3:00
Time
Series1
Series2
DustTrak-8530
Min Avg Max
0.002 0.012 0.068
miniRAE-3000
Min Avg Max
0.0 0.0 0.0

100 East 149th Street Photographic Log			
Installation of Soil Probe/Monitoring Well			
Photograph 2 – Installation of Soil Probe/Monitoring Well			
Photograph 3 – Installation of Soil Probe/Monitoring Well			

11/8/23

Sunny H: 52 L: 42 Wind: SSE @ 9 mph

Time	Concentration	PID	notes
900	0.007 mg/m³	0.0	setting up
915	0.004	0.0	drilling 23SV3
930	0.003	0.0	installing 23SV3
945	0.004	0.0	drilling 23SP3
10	0.023	0.0	" "
1015	0.014	0.0	" "
1030	0.002	0.0	" "
1045	0.005	0.0	" "
11	0.004	0.0	crew break
11 15	0.008	0.0	" "
1130	0.005	0.0	installing 23MW3
1145	0.007	0.0	" "
12	0.032	0.0	drilling 23SP4
12 15	0.006	0.0	crew & lunch
1230			no activity
1245			no activity
100	0.005	0.0	drilling 23SP4
115	0.008	0.0	" "
130	0.013	0.0	" "
145	0.008	0.0	" "
200	0.013	0.0	installing 23MW4
215	0.015	0.0	" "
230	0.007	0.0	end of day
245			
300			
315			
330			
345			

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Thursday, November 9, 2023
Weather:	Overcast, 41-59°F
Wind Direction/Speed:	N 4 mph
Touchstone Personnel on Site:	Gabrielle Castro
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 2] and DustTrak Aerosol Monitors (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	Oscar Peralta	Track Mounted Geoprobe

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was implemented throughout the workday. No exceedances were detected.
Completed the installation of 23SP7/23MW7, 23SV3, and 23SV4. Collected the following soil samples from 23SP7: 0-2.5 feet, 12-14 feet, 14-18 feet, and 27.5-30 feet.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	0.0	0.0
Maximum Particulate 15min Avg. Level (mg/m³):	0.053	NA

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Installation of Soil Probes and Collection of Soil Samples - Installation of Monitoring Wells -
Comments:	None.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

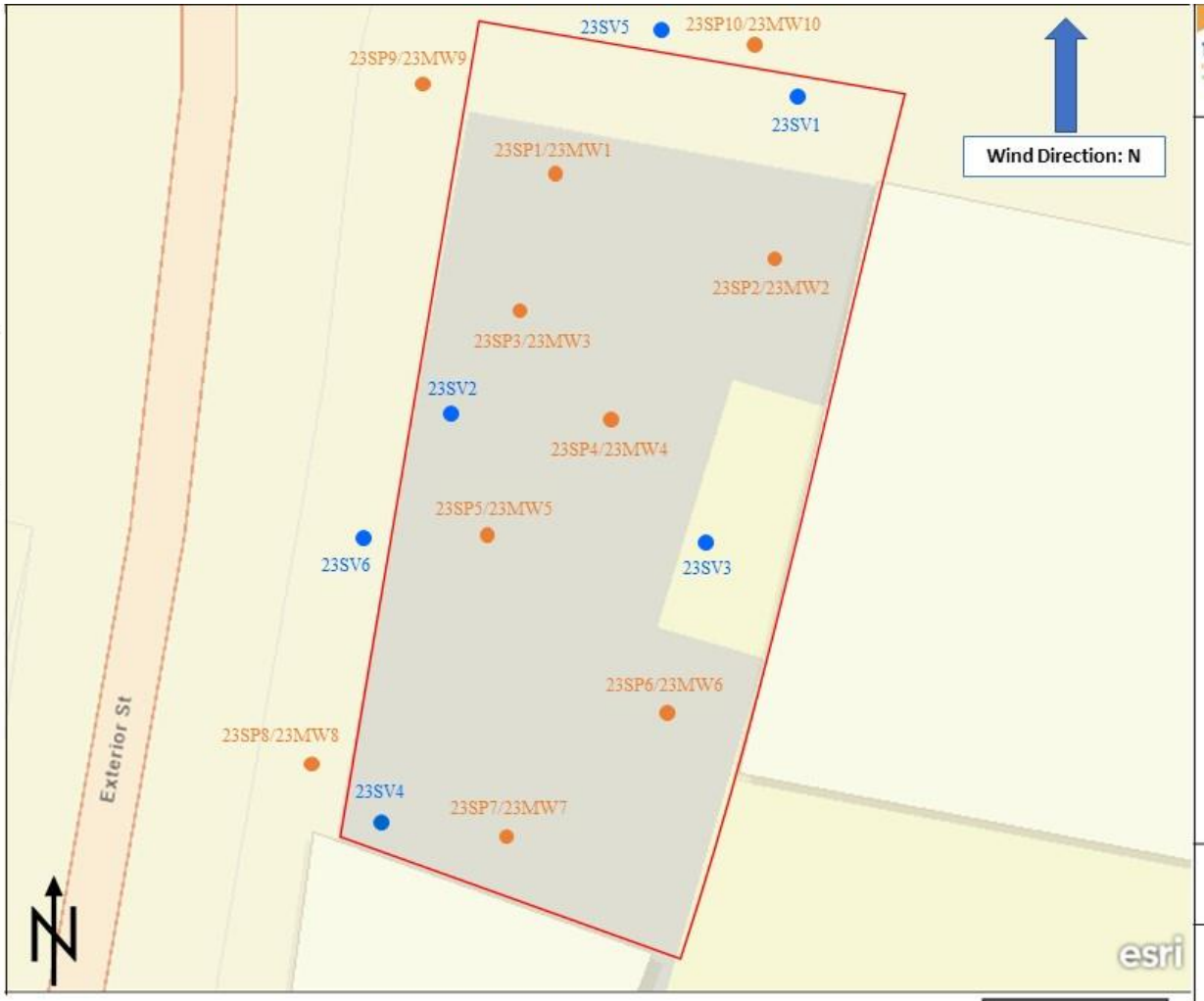
Notes:

Installation of 23SP7/23MW7, 23SV3, and 23SV4.

Samples Collected:

The following samples were collected: 23SP7: (0-2.5 feet, 12-14ft, 14 to 18 ft, 27.5 to 30 ft)

Camp Station Moved with the Geoprobe throughout the day.



TOUCHSTONE

100 East 149th Street
Bronx, New York

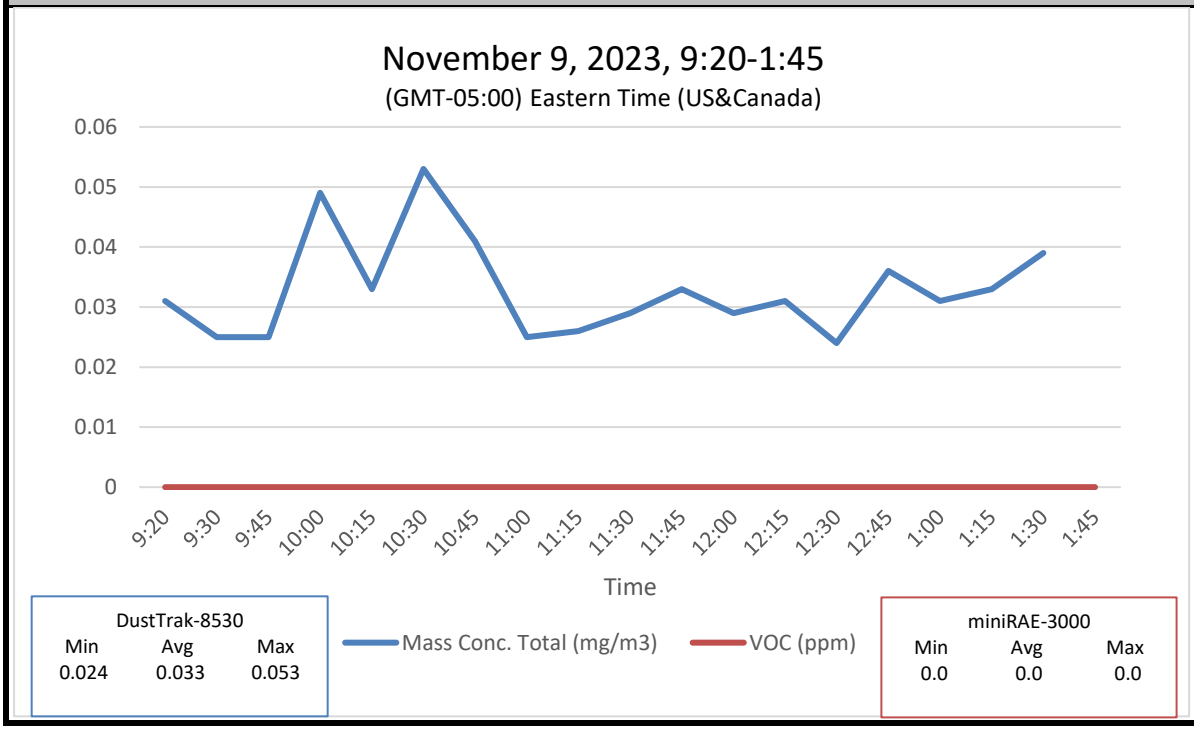
PROPOSED REMEDIAL EXCAVATION PLAN

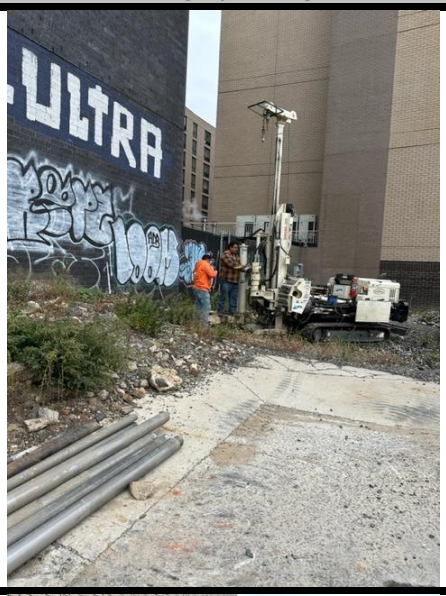
DATE
11/09/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station



100 East 149th Street Photographic Log			
Photograph 1 – Installation of Soil Vapor Probe			
Photograph 2 – Installation of Soil Vapor Probe			
Photograph 3 – Installation of Soil Probe/Monitoring Well			

cloudy H:59° L:41° 11/9/23

Wind: N @ 4mph

	dust	PID	notes
920	0.031	0.0	investigating 235V3
930	0.025	0.0	"
945	0.025	0.0	installed 235V3
1000	0.049	0.0	" "
1015	0.033	0.0	installing 235V4
1030	0.053	0.0	" "
1045	0.041	0.0	" "
11	0.025	0.0	" "
1115	0.026	0.0	installing 235P7
1130	0.024	0.0	" "
1145	0.033	0.0	" "
12	0.029	0.0	" "
1215	0.031	0.0	" "
1230	0.024	0.0	break for lunch
1245	0.036	0.0	" "
1	0.031	0.0	" "
115	0.033	0.0	installing 23MW7
130	0.039	0.0	" "
145			end @ 134 pm

235V3 to 8/A

235V4 to 8/A

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Monday, November 13, 2023
Weather:	Sunny, 32-50°F
Wind Direction/Speed:	S 2 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 2] and DustTrak Aerosol Monitors (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	Oscar Peralta	Geoprobe

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was implemented throughout the workday. No exceedances were detected.
Multiple refusals were encountered throughout the southern-central portion of the Site during soil probe installations at approximately 5 to 10-feet below grade resulting in moving the location of soil probe/monitoring well 23SP5/23MW5 towards the western boundary of the Site and moving the locations of soil probe/monitoring well 23SP6/23MW6 towards the eastern boundary of the Site. Completed the installation of soil probes 23SP5 and 23SP6 and monitoring wells 23MW5 and 23MW6. Soil samples were collected from 23SP5 and 23SP6.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	0.0	0.0
Maximum Particulate 15min Avg. Level (mg/m³):	0.063	NA

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Groundwater Samples - Collection of Soil Vapor Samples -
Comments:	Touchstone contacted the NYSDEC Project Manager to request the use of a small excavator at the Site to investigate the cause of the refusals.

100 East 149th Street Site Map

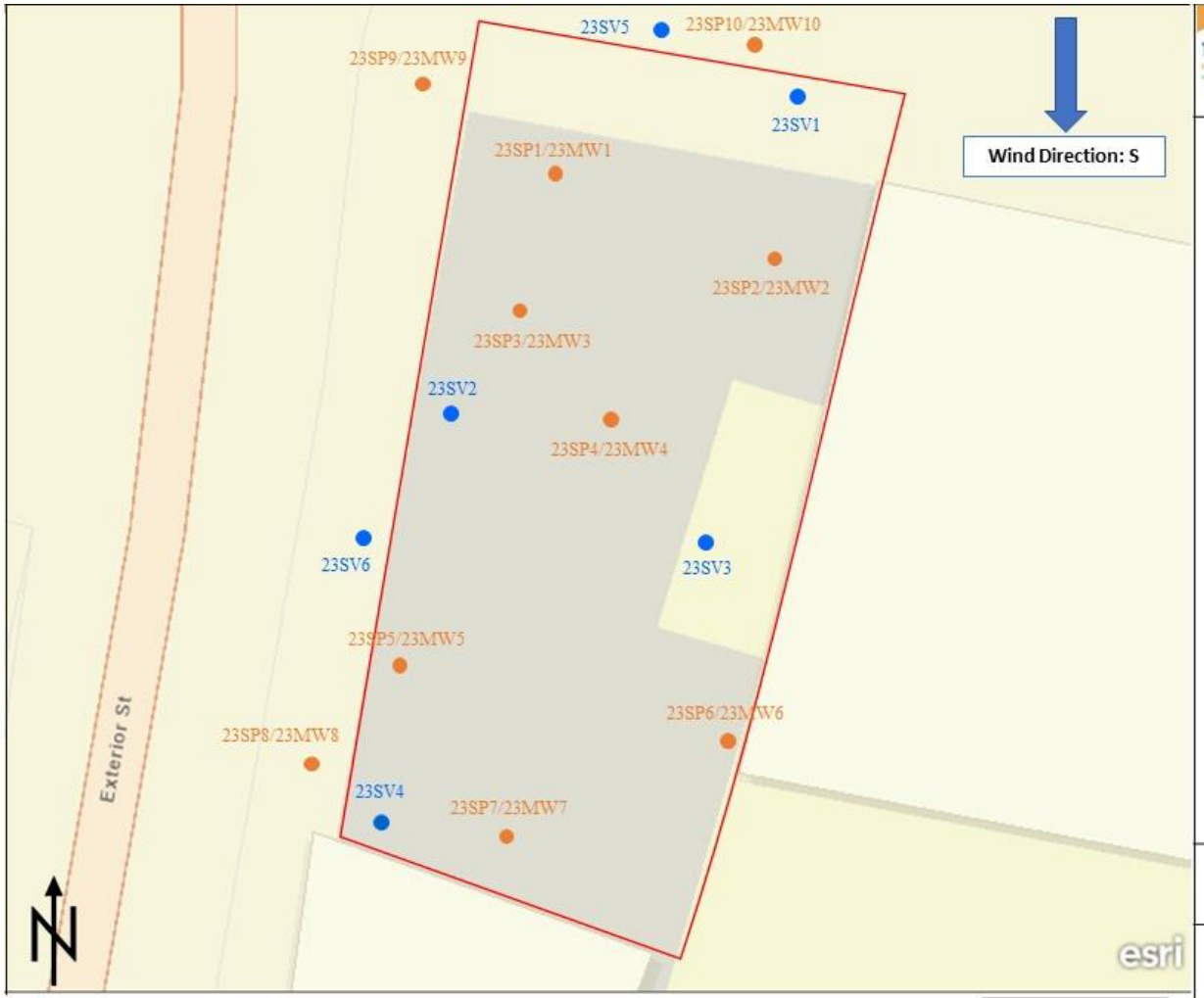
LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes: Multiple refusals were encountered throughout the southern-central portion of the Site during soil probe installations at approximately 5 to 10-feet below grade resulting in moving the location of soil probe/monitoring well 23SP5/23MW5 towards the western boundary of the Site and moving the locations of soil probe/monitoring well 23SP6/23MW6 towards the eastern boundary of the Site. Completed the installation of soil probes 23SP5 and 23SP6 and monitoring wells 23MW5 and 23MW6.

Samples Collected:
The following samples were collected:
23SP5: 0-2.5 ft, 12.5-15ft, 15 to 17.5 ft, 25 to 27.5 ft)
23SP6: 0-2.5 ft, 12.5-15ft, 15 to 17.5 ft, 22.5 to 25 ft)

Camp Station moved with the Geoprobe throughout the day.



TOUCHSTONE

100 East 149th Street
Bronx, New York

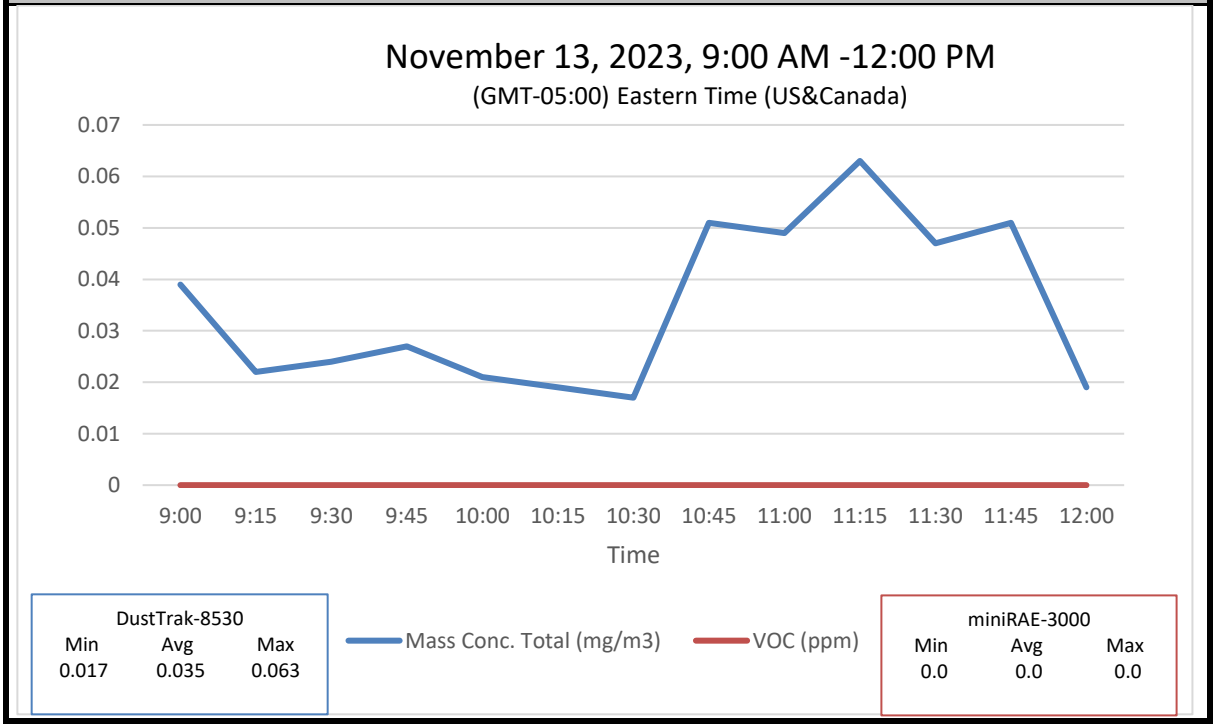
PROPOSED REMEDIAL EXCAVATION PLAN

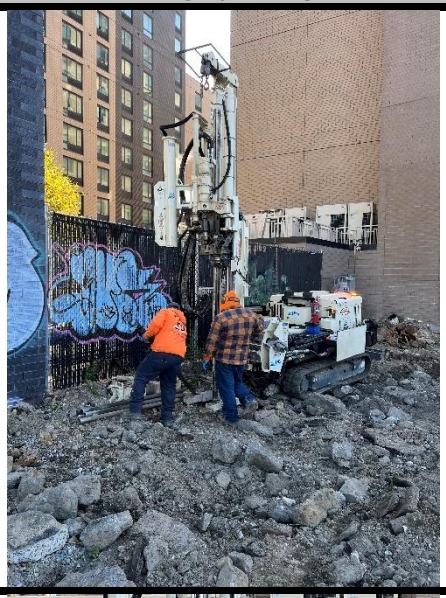
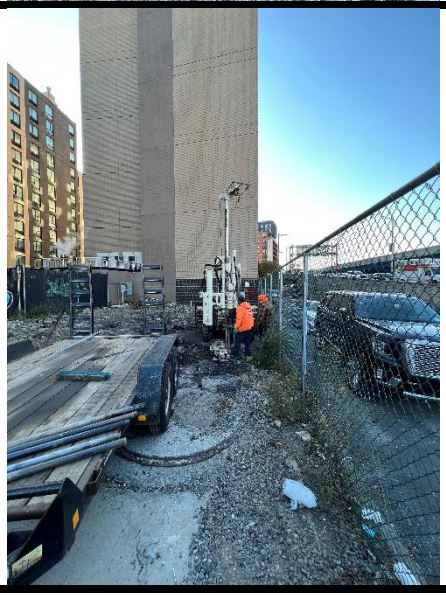
DATE
11/13/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station



100 East 149th Street Photographic Log			
Photograph 1 – Soil Probe Installation			
Photograph 2 – Soil Probe Installation			
Photograph 3 – Soil Probe Installation			

COMMUNITY AIR MONITORING

Weather:
Sunny
H:50 L:32
wind: S 2mph.

Date: 11/13/2022

Enter Site Name: 100 E. 149th. st.

Technician Name: First Ataman

Time	Meter Readings: PID (ppm) / Dust Meter (ug/m3) (I.e. 0.15/0.021)		Activity Notes (Digging in southern corner, truck#, etc)
7:00:00 AM			CAMP Calibration
7:15:00 AM			Dust tube Zeroed
7:30:00 AM			PID: 100.00 / 100.03
7:45:00 AM			
8:00:00 AM			
8:15:00 AM			
8:30:00 AM			
8:45:00 AM			
9:00:00 AM	0.0	0.039	
9:15:00 AM	0.0	0.042	
9:30:00 AM	0.0	0.024	
9:45:00 AM	0.0	0.027	
10:00:00 AM	0.0	0.021	
10:15:00 AM	0.0	0.019	
10:30:00 AM	0.0	0.017	
10:45:00 AM	0.0	0.051	
11:00:00 AM	0.0	0.049	
11:15:00 AM	0.0	0.063	
11:30:00 AM	0.0	0.047	
11:45:00 AM	0.0	0.051	
12:00:00 PM	0.0	0.049	
12:15:00 PM			
12:30:00 PM			
12:45:00 PM			
1:00:00 PM			
1:15:00 PM			

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Tuesday, November 14, 2023
Weather:	Sunny, 45-54°F
Wind Direction/Speed:	SE 2 mph
Touchstone Personnel on Site:	N/A
Touchstone Equipment on Site:	N/A
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday.
No Activity.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Groundwater Samples - Collection of Soil Vapor Samples -
Comments:	Touchstone contacted the NYSDEC Project Manager to request the use of a small excavator at the Site to investigate the cause of the refusals.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No Activity. CAMP monitoring was not conducted at the Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/14/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No Activity

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Wednesday, November 15, 2023
Weather:	Sunny, 39-54°F
Wind Direction/Speed:	S 1 to 4 mph
Touchstone Personnel on Site:	N/A
Touchstone Equipment on Site:	N/A
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday.
No Activity.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Groundwater Samples - Collection of Soil Vapor Samples -
Comments:	Touchstone submitted a Site Investigation Letter to the NYSDEC Project Manager. The Site Investigation letter proposed the performance of a test pit excavation at the Site to investigate the cause of the multiple refusals encountered during the soil probe/monitoring well installation of 23SP5/23MW5 and 23SP6/23MW6.

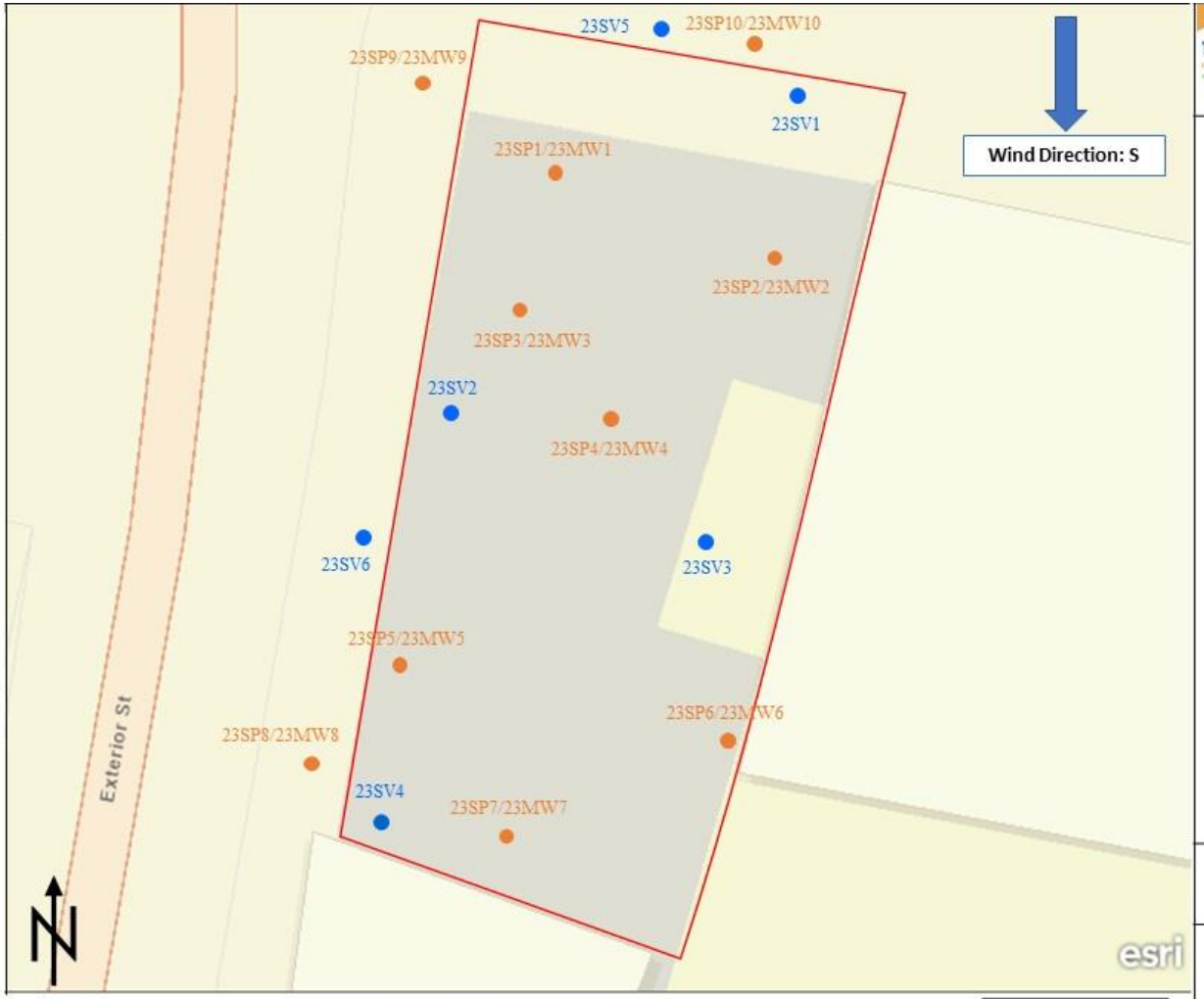
100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No Activity. CAMP monitoring was not conducted at the Site.

Samples Collected:
No samples were collected.



TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/15/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No Activity

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Thursday, November 16, 2023
Weather:	Sunny, 46-64°F
Wind Direction/Speed:	S 1 to 4 mph
Touchstone Personnel on Site:	N/A
Touchstone Equipment on Site:	N/A
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday.
No Activity.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Groundwater Samples - Collection of Soil Vapor Samples -
Comments:	Touchstone received comments on the Site Investigation Letter submitted on November 15, 2023.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

No Activity. CAMP monitoring was not conducted at the Site.

Samples Collected:

No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/16/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No Activity

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Friday, November 17, 2023
Weather:	Sunny, 54-66°F
Wind Direction/Speed:	S 4 to 5 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 1], Geo Pump (x1), and Horiba Water Meter (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday as drilling activities were not performed. Groundwater samples were collected from monitoring wells 23MW1, 23MW2, 23MW3, 23MW8, 23MW9, and 23MW10.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Groundwater Samples - Collection of Soil Vapor Samples -
Comments:	Touchstone submitted an updated Site Investigation Letter to the NYSDEC Project manager with the requested modified scope of work. Touchstone received comments on the updated Site Investigation Letter from the NYSDEC Project Manager and Section Chief.

100 East 149th Street Site Map

LEGEND

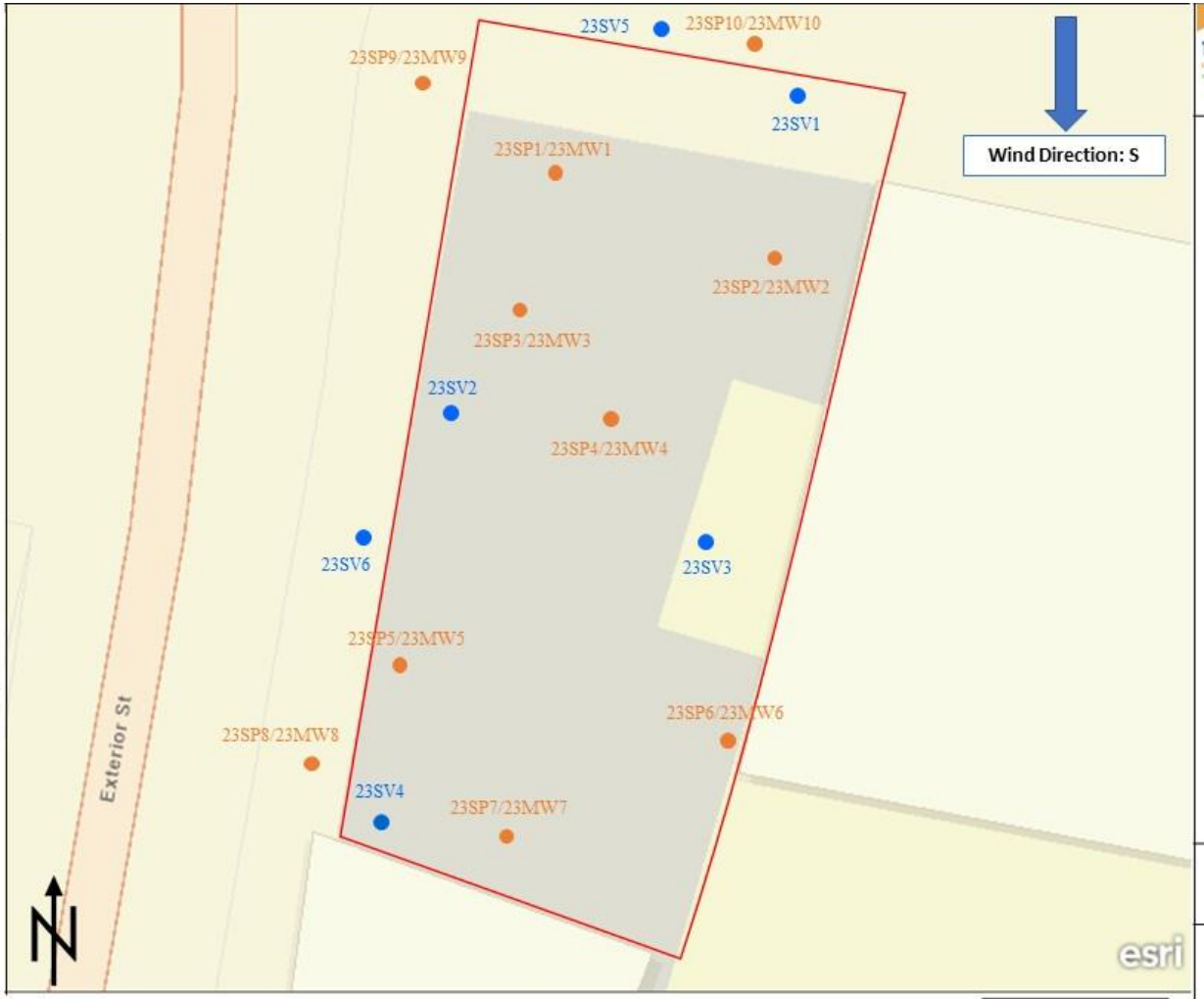
- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

Groundwater samples were collected from monitoring wells 23MW1, 23MW2, 23MW3, 23MW8, 23MW9, and 23MW10. CAMP monitoring was not conducted as no drilling activities were performed.

Samples Collected:

The following groundwater samples were collected: 23MW1, 23MW2, 23MW3, 23MW8, 23MW9, and 23MW10.



TOUCHSTONE

100 East 149th Street
Bronx, New York

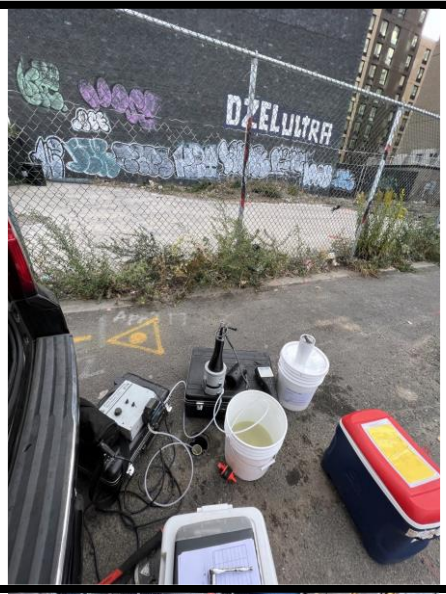
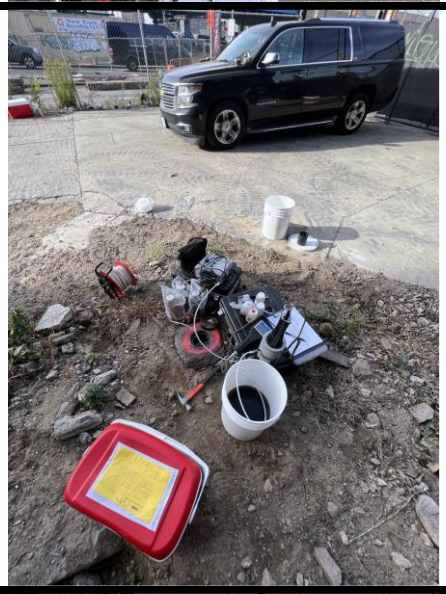
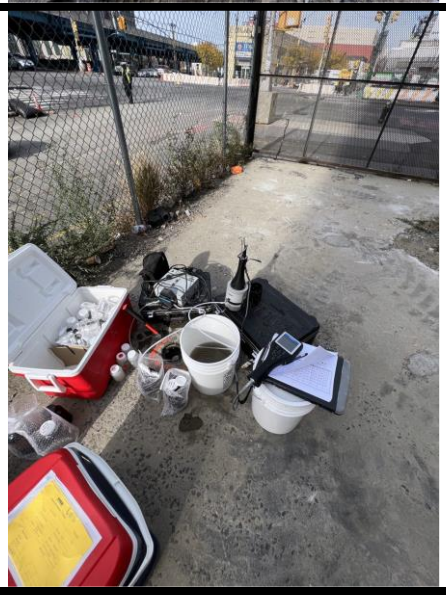
PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/17/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No CAMP Monitoring

100 East 149th Street Photographic Log		
Photograph 1 – Groundwater Sampling		
Photograph 2 – Groundwater Sampling		
Photograph 3 – Groundwater Sampling		

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of November 20, 2023 through November 24, 2023
Weather:	Rain, 34-46°F
Wind Direction/Speed:	SW to S 6 to 7 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 1], Geo Pump (x1), and Horiba Water Meter (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site apart from groundwater sampling on November 21, 2023. Groundwater samples were collected from monitoring wells 23MW4, 23MW5, 23MW6, and 23MW7.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m^3):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Soil Vapor Samples - Performance of Site Investigation
Comments:	Touchstone submitted an updated Site Investigation Letter to the NYSDEC Project manager with the requested modified scope of work (the performance of three 5' x 5' x 5' x 5' x 5' test pits) on November 21, 2023. Touchstone received approval from the NYSDEC Project manager via email on November 22, 2023. Touchstone informed the NYSDEC Project Manager that the Site Investigation work would be performed on December 1, 2023.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

No activities were performed on-Site apart from groundwater sampling on November 21, 2023. CAMP monitoring was not conducted at the Site throughout the work week as drilling activities were not performed.

Samples Collected:

Groundwater samples were collected from monitoring wells 23MW4, 23MW5, 23MW6, and 23MW7.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/20-24/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No CAMP Monitoring

100 East 149th Street Photographic Log			
Photograph 1 – Groundwater Sampling			
Photograph 2 – Groundwater Sampling			
Photograph 3 – Groundwater Sampling			

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Monday, November 27, 2023
Weather:	Sunny, 43-52°F
Wind Direction/Speed:	E to S 5 to 6 mph
Touchstone Personnel on Site:	N/A
Touchstone Equipment on Site:	N/A
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday.
No Activity.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Soil Vapor Samples - Performance of Site Investigation
Comments:	Touchstone informed the NYSDEC Project Manager that the Site Investigation work would be performed on December 1, 2023.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

No Activity. CAMP monitoring was not conducted at the Site.

Samples Collected:

No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/27/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No Activity

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Tuesday, November 28, 2023
Weather:	Sunny, 34-39°F
Wind Direction/Speed:	ESE 9 to 11 mph
Touchstone Personnel on Site:	N/A
Touchstone Equipment on Site:	N/A
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday.
No Activity.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Collection of Soil Vapor Samples - Performance of Site Investigation
Comments:	Touchstone informed the NYSDEC Project Manager that the Site Investigation work would be performed on December 1, 2023.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

No Activity. CAMP monitoring was not conducted at the Site.

Samples Collected:

No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/28/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No Activity

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Wednesday, November 29, 2023
Weather:	Sunny, 27-37°F
Wind Direction/Speed:	S 4 to 6 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detector [(PID) x 1] and Helium Meter [x1]
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday as no drilling was conducted.
Collected soil vapor samples (23SV1, 23SV2, 23SV3, 23SV4, 23SV5, and 23SV6) and outdoor air sample OA-1.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Performance of Site Investigation
Comments:	Touchstone informed the NYSDEC Project Manager that the Site Investigation work would be performed on December 1, 2023.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

Collected soil vapor samples and an outdoor air sample. CAMP monitoring was not conducted at the Site.

Samples Collected:

Collected soil vapor samples 23SV1, 23SV2, 23SV3, 23SV4, 23SV5, and 23SV6 and outdoor air sample OA-1.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

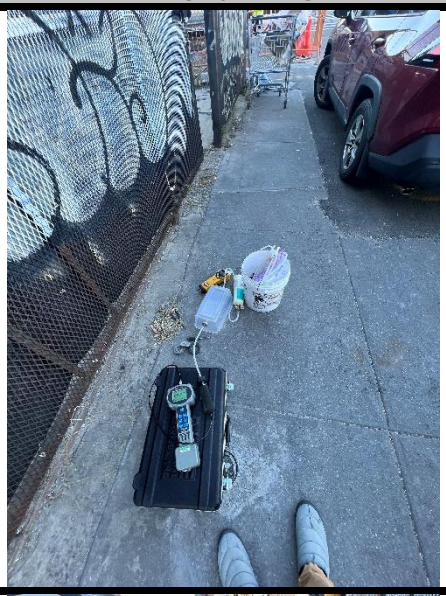
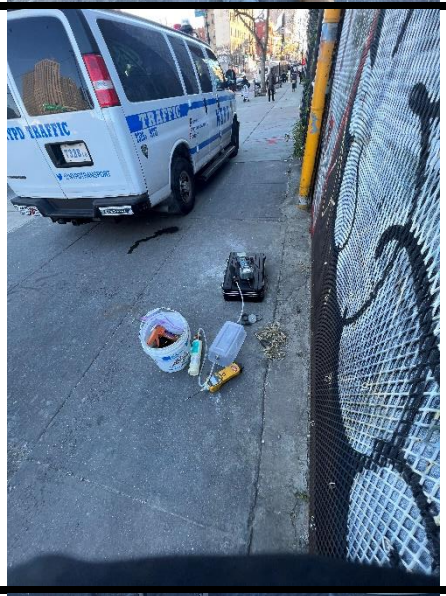
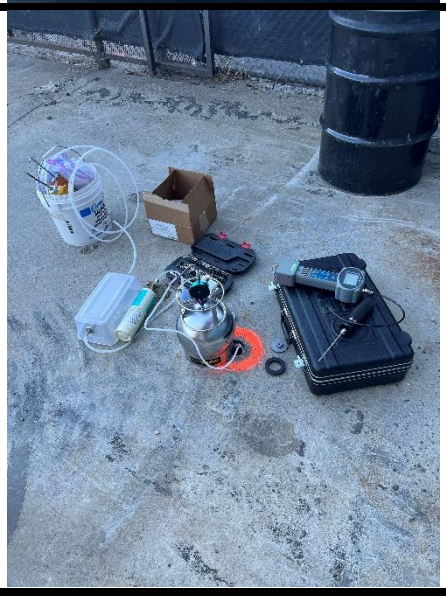
DATE
11/29/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station

No CAMP Monitoring Performed

100 East 149th Street Photographic Log		
Photograph 1 – Helium Leak Testing		
Photograph 2 – Helium Leak Testing		
Photograph 3 – Soil Vapor Sample Collection		

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Thursday, November 30, 2023
Weather:	Sunny, 36-50°F
Wind Direction/Speed:	NE to S 2 to 4 mph
Touchstone Personnel on Site:	N/A
Touchstone Equipment on Site:	N/A
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday.
No Activity.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- Performance of Site Investigation
Comments:	Touchstone informed the NYSDEC Project Manager that the Site Investigation work would be performed on December 1, 2023.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

No Activity. CAMP monitoring was not conducted at the Site.

Samples Collected:

No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
11/30/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No Activity

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Friday, December 1, 2023
Weather:	Cloudy, 37-51°F
Wind Direction/Speed:	NE 7 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 2] and DustTrak Aerosol Monitors (x1)
Visitors:	NYSDEC Project Manager Erick Bower

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.		Excavator, Jack Hammer

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was implemented throughout the workday until it began to rain in the afternoon. Upwind CAMP readings were high due to the proximity of the dust monitor to the excavator and due to work/repairs being conducted on the sidewalk.

Touchstone performed a Site Investigation in the southern portion of the Site to investigate a suspect underground storage tank (UST) anomaly identified in former investigations of the Site and to investigate the cause of refusals in the area during the implementation of the RIWP. Metal sheeting was identified during the investigation and was further excavated. The excavation of the metal sheeting revealed the presence of a double auto service pit (42' x 16' x 5') used for automotive maintenance. At the bottom of one of the service pits, a 3' x 3' x 4' drain pit was discovered. The drain pit contained sludgy, wet petroleum with noticeable petroleum odor and a soil PID reading of 39.3 was recorded. Additionally, a small amount of contaminated soil with a petroleum odor was identified in the southwest corner of the service pit. The affected soil was separately stored on plastic sheeting at the Site prior to being placed into drums. The auto service pit and drain pit bottoms were observed to be concrete. Brick walls formed the perimeter of the drain pit. The anomaly area was identified to be the reinforced concrete footing and steel post of a former commercial billboard which were left in the ground. During the investigation, an old hydraulic tank was identified. The hydraulic oil tank was disconnected, dry, and no product was identified. The tank was separated and wrapped in plastic. The excavation was backfilled, and the ground was leveled following the completion of the investigation.

CAMP Air Monitoring Results

CAMP Station	Upwind CAMP Station	Downwind CAMP Station	Roving (PID)
Odors:	None	None	None
VOC Action Level Exceedance(s):	None	None	None
Particulate Action Level Exceedance(s):	None	None	None
Maximum VOC 15min Avg. Level (ppm):	0.0	0.0	0.0
Maximum Particulate 15min Avg. Level (mg/m³):	0.710	0.92	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activityfor Following Day/Week:	- None.
Comments:	The NYSDEC Project Manager requested that the newly discovered oily pit be added to the existing spill case at the Site. During the excavation, some fill sand from the base of 22SV3 was exposed. Soil vapor probe 22SV3 may need to be reinstalled.

100 East 149th Street Site Map

LEGEND

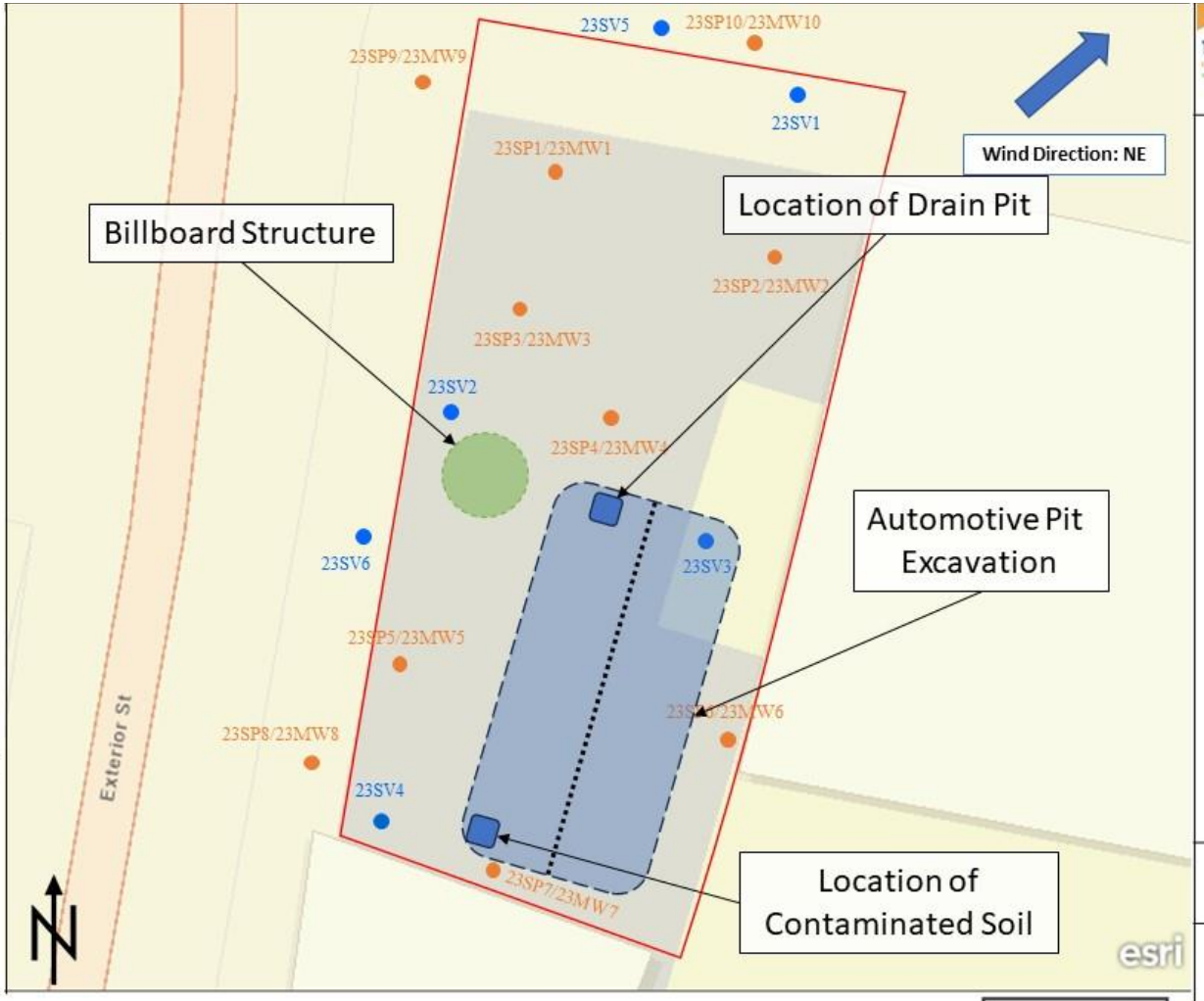
- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

A Site Investigation was performed which included the use of an excavator in the southern portion of the Site. An automotive repair pit and drain pit were identified. Contaminated soil was identified during the excavation and was properly separated and stored in a drum at the Site for disposal. An old hydraulic oil tank was also identified. The tank was dry and was wrapped in plastic. A concrete footing and steel post from a former billboard were identified on the western portion of the Site,

Samples Collected:

No samples were collected.



TOUCHSTONE

100 East 149th Street
Bronx, New York

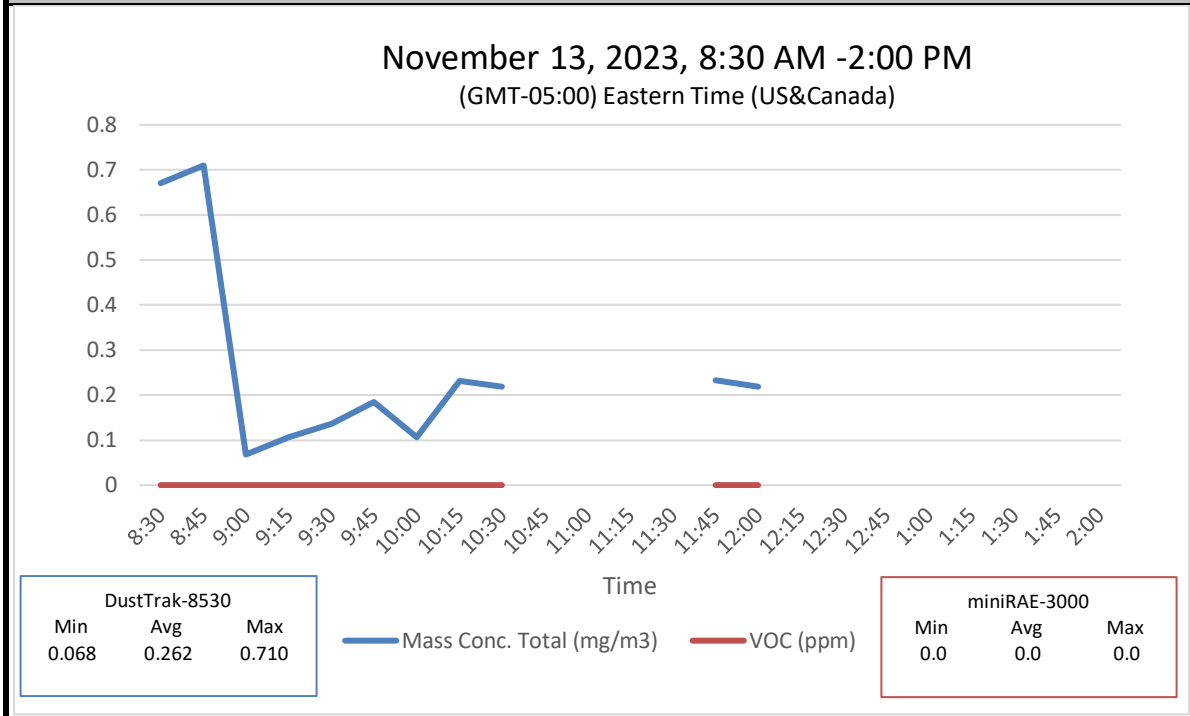
PROPOSED REMEDIAL EXCAVATION PLAN

DATE
12/01/2023

PROJECT NO.
C203159

ATTACHMENT A

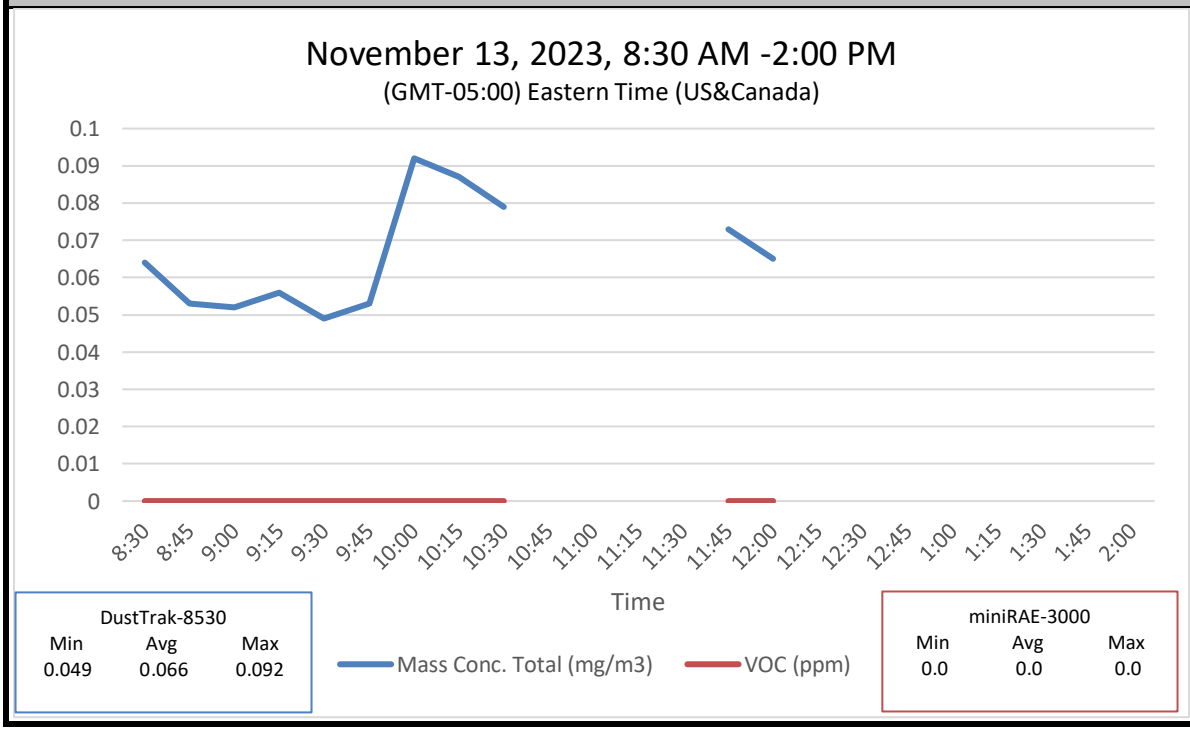
100 East 149th Upwind CAMP Station



DustTrak-8530		
Min	Avg	Max
0.068	0.262	0.710

miniRAE-3000		
Min	Avg	Max
0.0	0.0	0.0

100 East 149th Downwind CAMP Station



DustTrak-8530		
Min	Avg	Max
0.049	0.066	0.092

miniRAE-3000		
Min	Avg	Max
0.0	0.0	0.0

100 East 149th Street Photographic Log		
Photograph 1 – Site Investigation Excavation		
Photograph 2 – Identification of Automotive Repair Pits		
Photograph 3 – Base of Automotive Repair Pit and Identified Old Hydraulic Oil Tank		

39.3 ppm
0.8

Touchstone Environmental Geology, Air Monitoring Form

Project Name: 100 E. 149th. St. The Bronx, NY
Site Location: 100 E. 149th St. The Bronx, NY
Date: 12/1/2023
Touchstone Personnel:
Weather: Cloudy
Temp: H: 51 L: 37
Wind Direction: NE 7 mph.
Sample Interval: 15 min.
Background Reading (particulates): 0.060 mg/m3 0.055
Background Reading (organic vapors): 0.0 ppm 0.00

TIME	AIR PATRICULATE LEVELS UPGRADIENT (mg/m3)	PID READINGS (PPM)	AIR PATRICULATE LEVELS DOWNGRADIENT (mg/m3)	PID READINGS (PPM)
7:00				
7:15				
7:30				
7:45				
8:00				
8:15				
8:30	0.067	0.0	0.064	0.0
8:45	0.071	0.0	0.053	0.0
9:00	0.068	0.0	0.052	0.0
9:15	0.102	0.0	0.056	0.0
9:30	0.137	0.0	0.049	0.0
9:45	0.195	0.0	0.053	0.0
10:00	0.167	0.0	0.092	0.0
10:15	0.231	0.0	0.087	0.0
10:30	0.219	0.0	0.079	0.0
10:45				
11:00				
11:15				
11:30		activity		
11:45	0.233 No	0.0	0.073	0.0
12:00	0.219	0.0	0.065	0.0
12:15				
12:30				
12:45	Raining No Recorder data.			
13:00				
13:15				
13:30				
13:45				
14:00				
14:15				
14:30	Upwind readings were high because of excavator was close and			
14:45	engine smoke and also side walk repair was going on some welding			
15:00	happened during monitoring.			

Rain.

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of December 4, 2023 through December 8, 2023
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
12/04-08/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of December 11, 2023 through December 15, 2023
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
12/11-15/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of December 18, 2023 through December 22, 2023
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
12/18-22/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of December 25, 2023 through December 29, 2023
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
12/25-29/2023

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of January 01, 2024 through January 05, 2024
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
01/01-05/2024

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station

No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of January 08, 2024 through January 12, 2024
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Mini RAE 3000 Photoionization Detectors [(PID) x 1], Geo Pump (x1), and Horiba Water Meter (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site apart from groundwater sampling on January 12, 2024. Groundwater samples were collected from all monitoring wells (23MW1 through 23MW10) for PFAS analysis. Additionally, a monitoring well survey was performed and four drums of investigation derived waste were picked up from the Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	0.0
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

No activity was performed on-Site apart from groundwater sampling on January 12, 2024. Additionally, a monitoring well survey was performed, and four drums of investigation derived waste were picked up from the Site.

Samples Collected:

Groundwater samples were collected from all monitoring wells (23MWa through, 23MW10) for PFAS analysis.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

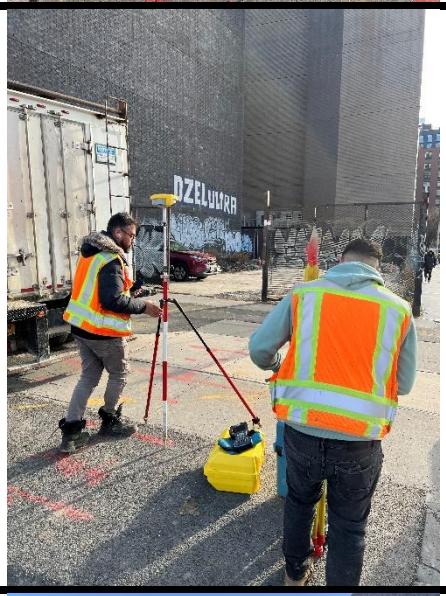
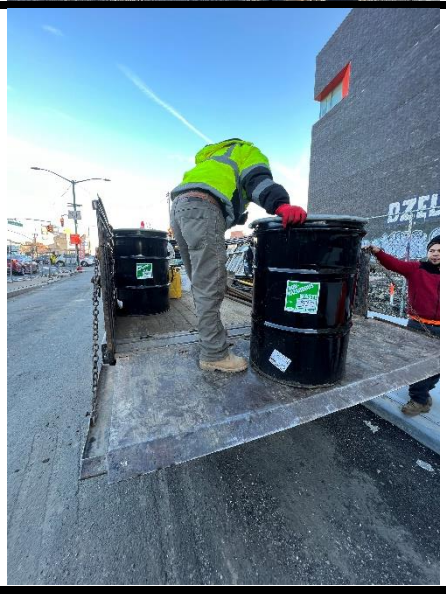
DATE
01/08-12/2024

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station

No CAMP Monitoring

100 East 149th Street Photographic Log			
Photograph 1 – Monitoring Well Survey			
Photograph 2 – Monitoring Well Survey			
Photograph 3 – Drum Removal			

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of January 15, 2024 through January 19, 2024
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
01/15-19/2024

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station

No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of January 22, 2024 through January 26, 2024
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
01/22-26/2024

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station

No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of January 29, 2024 through February 2, 2024
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	None
Touchstone Equipment on Site:	None
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.
No activities were performed on-Site.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

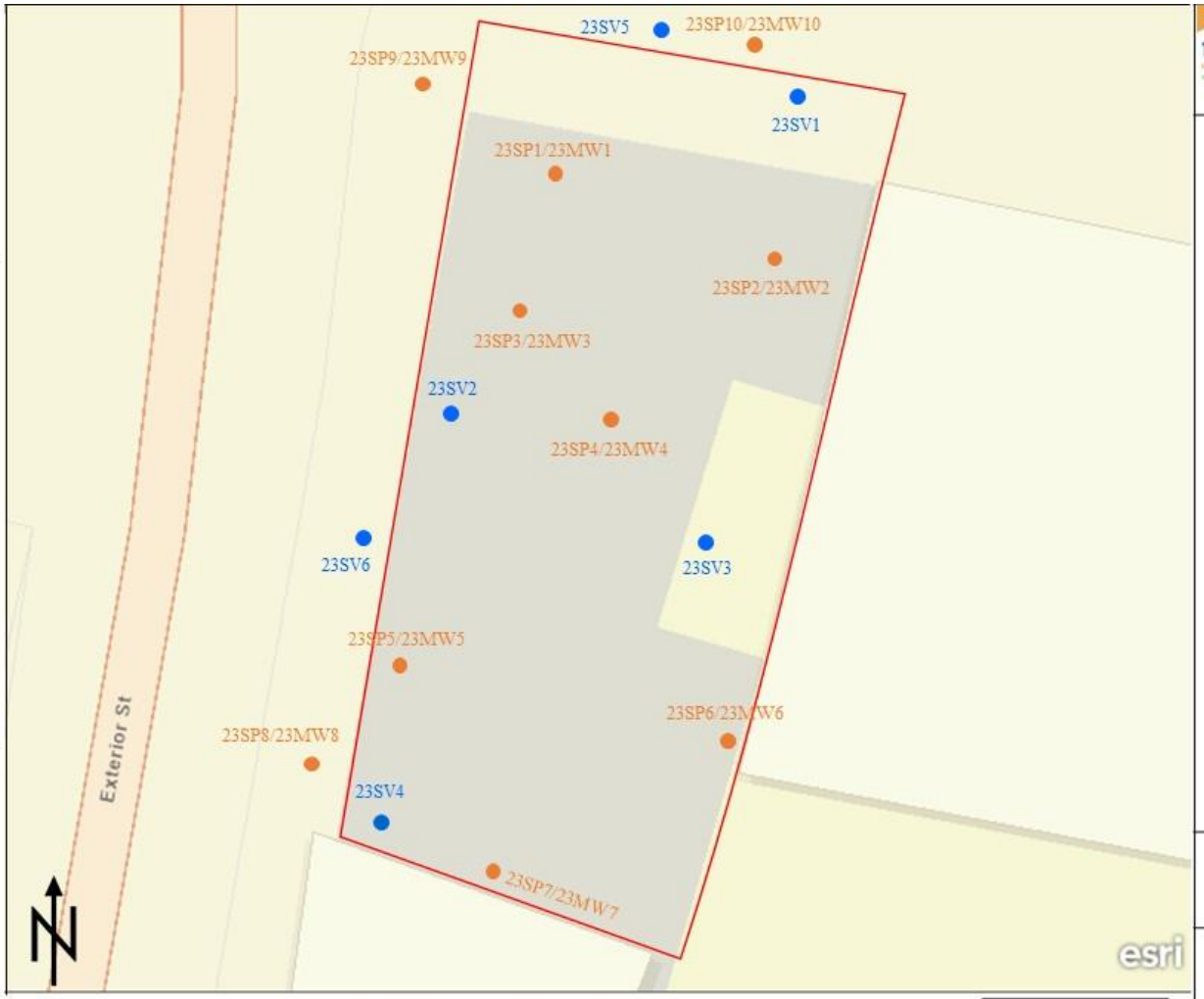
100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:
No activity was performed on-Site.

Samples Collected:
No samples were collected.



TOUCHSTONE

100 East 149th Street
Bronx, New York

PROPOSED REMEDIAL EXCAVATION PLAN

DATE
01/29-2024
02/02/2024

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station

No CAMP Monitoring

100 East 149th Street Photographic Log	
Photograph 1 –	No Activity
Photograph 2 –	No Activity
Photograph 3 –	No Activity

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Wednesday, April 24, 2024
Weather:	Overcast, 49-69°F
Wind Direction/Speed:	S 1 to 7 mph
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Interface Probe
Visitors:	N/A

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the workday as no drilling activities were conducted.

Touchstone performed a supplemental groundwater elevation investigation at the Site on April 24, 2024 based upon a request by the NYSDEC in their April 19, 2024 letter which requested modifications be made to the Remedial Investigation Report (RIR). The depth to water was measured in all monitoring wells (23MW1 through 23MW10) with an interface probe. The depth to water in each well was recorded and a new groundwater contour map was generated for the RIR. No samples were collected.

CAMP Air Monitoring Results

CAMP Station	Upwind CAMP Station	Downwind CAMP Station	Roving (PID)
Odors:	None	None	None
VOC Action Level Exceedance(s):	None	None	None
Particulate Action Level Exceedance(s):	None	None	None
Maximum VOC 15min Avg. Level (ppm):	None	None	None
Maximum Particulate 15min Avg. Level (mg/m³):	None	None	None

CAMP Response Actions: None.

Additional Information

Planned Work Activityfor Following Day/Week:	- None.
Comments:	None.

100 East 149th Street Site Map

LEGEND

- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

Touchstone performed a supplemental groundwater elevation investigation at the Site based upon a request by the NYSDEC in their April 19, 2024 letter which requested modifications be made to the Remedial Investigation Report (RIR). The depth to water was measured in all monitoring wells (23MW1 through 23MW10) with an interface probe. The depth to water in each well was recorded and a new groundwater contour map was generated for the RIR. CAMP monitoring was not conducted at the Site.

Samples Collected:

No samples were collected.

TOUCHSTONE

100 East 149th Street
Bronx, New York

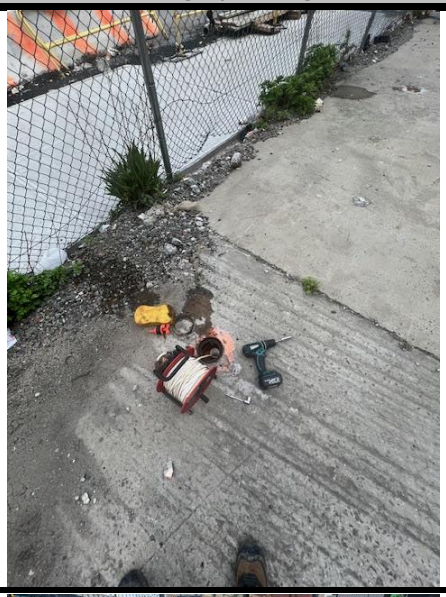
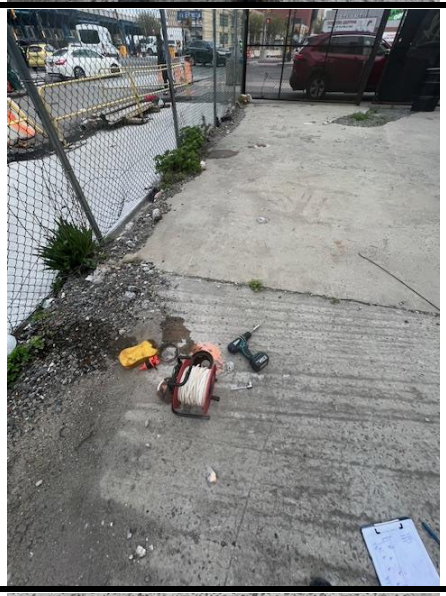
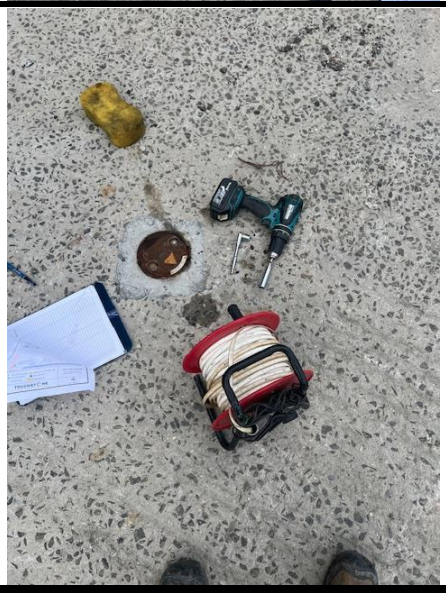
PROPOSED REMEDIAL EXCAVATION PLAN

DATE
04/24/2024

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th Upwind CAMP Station
No CAMP Monitoring Conducted
100 East 149th Downwind CAMP Station
No CAMP Monitoring Conducted

100 East 149th Street Photographic Log		
Photograph 1 – Monitoring Well and Interface Probe		
Photograph 2 – Monitoring Well and Interface Probe		
Photograph 3 – Monitoring Well and Interface Probe		

Daily Activity Report

100 East 149th Street Site

100 East 149th Street, Bronx, New York

BCP No. C203159

General Site Information

Date:	Week of July 8, 2024 through July 12, 2024
Weather:	Choose an item.
Wind Direction/Speed:	N/A
Touchstone Personnel on Site:	Firat Ataman
Touchstone Equipment on Site:	Interface Probe (x1), Vanessen Micro-diver (x3), Vanessen Baro-diver (x1)
Visitors:	None

Contractor Information

Contracting Company	Main Personnel	Equipment
Drilling Contractor: PG Environmental Services, Inc.	N/A	N/A

Description and Location of Work Activities Performed

The Community Air Monitoring Program (CAMP) was not implemented throughout the work week as drilling activities were not performed.

On July 10, 2024, three micro-divers were deployed at the Site in monitoring wells 23MW4, 23MW7, and 23MW10 and one baro-diver was deployed at the Site to perform a tidal influence survey as requested by the NYSDEC Project Manager. The micro-divers and baro-diver were collected from the Site on July 11, 2024.

CAMP Air Monitoring Results

CAMP Station	Roving CAMP Station	Roving (PID)
Odors:	None	None
VOC Action Level Exceedance(s):	None	None
Particulate Action Level Exceedance(s):	None	None
Maximum VOC 15min Avg. Level (ppm):	N/A	N/A
Maximum Particulate 15min Avg. Level (mg/m³):	N/A	N/A

CAMP Response Actions: None.

Additional Information

Planned Work Activity for Following Day/Week:	- None
Comments:	None

100 East 149th Street Site Map

LEGEND

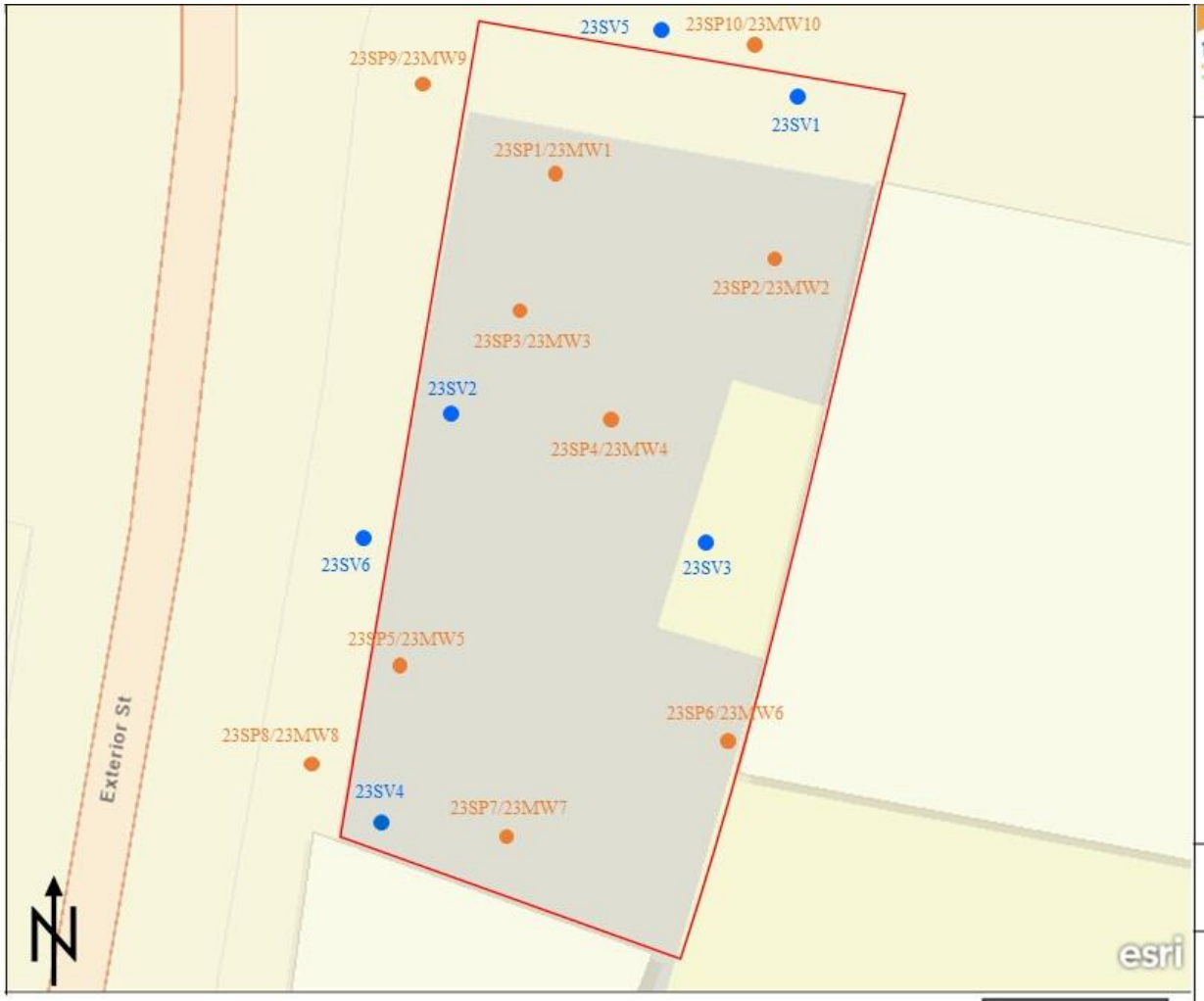
- Site Boundary
- Soil Probe Location/Monitoring Well Location
- Soil Vapor Probe

Notes:

Touchstone performed a tidal influence survey at the Site based upon a request by the NYSDEC Project Manager. On July 10, 2024, three micro-divers were deployed at the Site in monitoring wells 23MW4, 23MW7, and 23MW10 and one baro-diver was deployed at the Site to perform a tidal influence survey as requested by the NYSDEC Project Manager. The micro-divers and baro-diver were collected from the Site on July 11, 2024. CAMP monitoring was not conducted at the Site.

Samples Collected:

No samples were collected.



TOUCHSTONE

100 East 149th Street
Bronx, New York

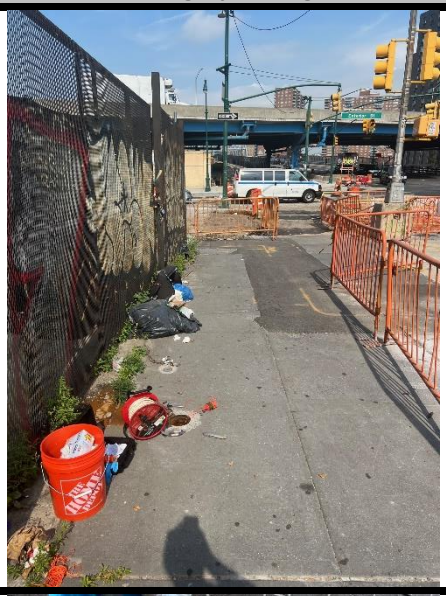
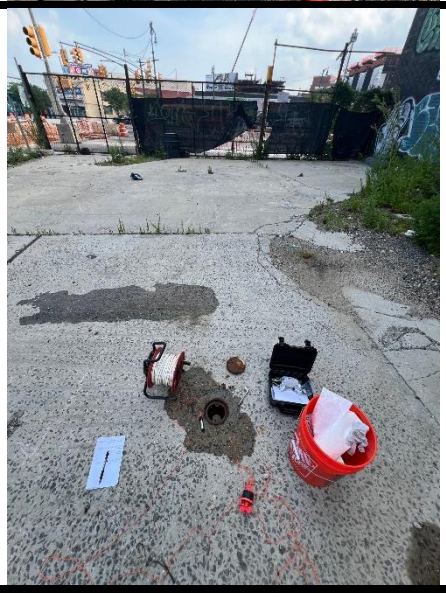
PROPOSED REMEDIAL EXCAVATION PLAN

DATE
07/08/2024 – 07/12/2024

PROJECT NO.
C203159

ATTACHMENT A

100 East 149th CAMP Station
No CAMP Monitoring

100 East 149th Street Photographic Log		
Photograph 1 – Tidal Influence Survey		
Photograph 2 – Tidal Influence Survey		
Photograph 3 – Tidal Influence Survey		

Appendix F

Soil Boring Logs

Touchstone Environmental Geology, PC	Soil Probe Log (23SP1)		
Date: 11/7/2023		**Total Depth:** 25 feet	
Location: 100 East 149th Street		**Sampling Interval:** 2.5 feet	
Bronx, New York		**Sampling Method:** Grab	
Boring No: 23SP1		**Driller:** PG Environmental Services, Inc.	
Drilling Method: Track Mounted Geoprobe		**Depth to Water:** 11 feet	
Latitude: 40.819028°		**Longitude:** -73.930069°	

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Concrete, Gravel, Asphalt, Fill Material, Medium Grained Brown Sand	0.0	SW
2.5 5		Fill Material, Gravel, Medium Grained Brown Sand	0.0	SW
5 7.5		Same as Above	0.9	SW
7.5 10		Same as Above	31.3	SW
10 12.5	Sample Collected for Analysis	Same as Above, Water at 11 feet	417.2	SW
12.5 15	Sample Collected for Analysis	Fill Material, Fine Grained Dark Brown Sand, Petroleum Odor	1121.3	SW
15 17.5		Fill Material, Medium Grained Brown Sand, Coal Ash	320.1	SW
17.5 20		Same as Above	45.8	SW
20 22.5		Same as Above	0.0	SW
22.5 25	Sample Collected for Analysis	Fine Grained Brown Clay-like Sand, Medium Grained Brown Sand	0.0	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP2)

Date:	11/7/2023	**Total Depth:**	30 feet
Location:	100 East 149th Street	**Sampling Interval:**	2.5 feet
	Bronx, New York	**Sampling Method:**	Grab
Boring No:	23SP2	**Driller:**	PG Environmental Services, Inc.
Drilling Method:	Track Mounted Geoprobe	**Depth to Water:**	16 to 17 feet
Latitude:	40.818986°	**Longitude:**	-73.929964°

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Medium Grained Brown Sand, Fill Material, Brick Pieces	0.0	SW
2.5 5		Same as Above	0.0	SW
5 7.5		Medium Grained Brown Sand, Fill Material, Rocks	17.3	SW
7.5 10		Same as Above	21.2	SW
10 12.5		Medium Grained Brown Sand, Fill Material, Fine Grained Brown Clay-like Sand	81.9	SW
12.5 15		Same as Above	181.3	SW
15 17.5	Sample Collected for Analysis	Fine Grained Clay-like Sand, Medium Grained Brown Sand, Rocks, Wet at 16-17 feet	199.1	SW
17.5 20	18-20' Sample Collected for Analysis	Medium Grained Brown Sand, Fine Grained Brown Sand	170.3	SW
20 22.5		Same as Above	121.3	SW
22.5 25		Same as Above, Rocks	21.3	SW
25 27.5		Fine Grained Brown Sand	7.8	SW
27.5 30	Sample Collected for Analysis	Same as Above	0.0	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP3)		
Date: 11/8/2023		**Total Depth:** 30 feet	
Location: 100 East 149th Street		**Sampling Interval:** 2 to 5 feet	
Bronx, New York		**Sampling Method:** Grab	
Boring No: 23SP3		**Driller:** PG Environmental Services, Inc.	
Drilling Method: Track Mounted Geoprobe		**Depth to Water:** 15 feet	
Latitude: 40.818978°		**Longitude:** -73.930081°	

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Concrete, Medium Grained Brown Sand with Rocks, Asphalt, Fill Material	0.0	SW
2.5 5		Asphalt, Medium to Fine Grained Brown Sand with Rocks, Fill Material	0.0	SW
5 8		Fine to Medium Grained Brown Sand with Rock and Concrete, Fill Material, Slight Petroleum Odor	13.5	SW
8 10	8-12' Sample Collected for Analysis	Petroleum Odor, Fine to Medium Grained Brown Sand with Rocks and Concrete, Fill Material, Brown Fine Grained Clay-like Sand	2.0	SW
10 12		Fine to Medium Grained Brown Sand and Coarse Grained Brown Sand with Rocks and Asphalt, Fill Material	25.8	SW
12 14	Sample Collected for Analysis	Asphalt, Fine to Medium Grained Brown Sand with Rocks, Fill Material	1326	SW
14 16		Brown and Gray Clay-like Sand with Brick Pieces, Fill Material, Fine to Medium Grained Brown Sand, Petroleum Odor at 15-feet, Wet at 15 feet	1046	SW
16 18		Moist Fine Grained Dark Brown Clay-like Sand, Petroleum Odor	1227	SW
18 20		Wet Fine Grained Dark Brown Clay-like Sand with Petroleum Odor	210.6	SW
20 22.5		Wet Fine Grained Brown and Dark Brown Sand with Rocks and Clay-like Sand, Petroleum Odor	11.1	SW
22.5 25		Fine Grained Dark Brown and Gray Sand with Rocks and Clay-like Sand, Petroleum Odor at Approximately 24 feet	0.8	SW
25 27.5	25-20' Sample Collected for Analysis	Wet Fine Grained Brown Sand	0.0	SW
27.5 30		Moist Fine Grained Brown Sand and Clay-like Sand	0.0	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP4)		
Date: 11/8/2023		**Total Depth:** 30 feet	
Location: 100 East 149th Street		**Sampling Interval:** 2 to 5 feet	
Bronx, New York		**Sampling Method:** Grab	
Boring No: 23SP4		**Driller:** PG Environmental Services, Inc.	
Drilling Method: Track Mounted Geoprobe		**Depth to Water:** 15-feet	
Latitude: 40.818942°		**Longitude:** -73.930022°	

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	0-5' Sample Collected for Analysis	Concrete, Fine to Medium Grained and Coarse Grained Brown Sand with Rocks	2.8	SW
2.5 - 5		Fine to Coarse Grained Brown Sand with Rocks	15.6	SW
5 - 8		Fine to Medium Grained Brown Sand with Rocks, Asphalt, Fine Grained Brown Clay-like Sand with Rocks and Brick Pieces	20.4	SW
8 - 10		Coarse Grained Brown Sand, Fine Grained Brown Sand, Concrete, Fine to Medium Grained Brown Sand, Fine Grained Gray Clay-like Sand, Fine to Medium Grained Black Sand, Petroleum Odor at 10-feet	91.9	SW
10 - 12		Medium to Coarse Grained Brown and Dark Brown Sand, Moist Fine Grained Black Clay-like Sand, Petroleum Odor	158.2	SW
12 - 14	Sample Collected for Analysis	Moist Black Fine Grained Clay-like Sand, Asphalt, Rock, Fine Grained Gray Clay-like Sand, Petroleum Odor	1938	SW
14 - 16	Sample Collected for Analysis	Fine to Medium Grained Brown Clay-like Sand and Sand, Moist Fine Grained Dark Brown Clay-like Sand, Petroleum Odor	1637	SW
16 - 18		Moist/Wet Medium Grained Dark Brown Sand with Rocks, Petroleum Odor	134.9	SW
18 - 20		Wet Medium Grained Dark Brown Sand with Rocks, Petroleum Odor	26.9	SW
20 - 22.5		Same as Above, Moist Fine Grained Gray Clay-like Sand	0.0	SW
22.5 - 25		Moist Fine Grained Dark Brown Clay-like Sand and Fine to Medium Grained Brown Sand	12.8	SW
25 - 27.5		Dark Brown Fine to Medium Grained Brown Sand, Wet Fine to Medium Grained Brown Sand, Petroleum Odor at Approximately 25-feet	0.7	SW
27.5 - 30	Sample Collected for Analysis	Wet Fine to Medium Grained Brown Sand with Rocks and Coarse Grained Brown Sand	0.0	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP5)

Date:	11/13/2023	**Total Depth:**	30 feet
Location:	100 East 149th Street	**Sampling Interval:**	2 to 5 feet
	Bronx, New York	**Sampling Method:**	Grab
Boring No:	23SP5	**Driller:**	PG Environmental Services, Inc.
Drilling Method:	Track Mounted Geoprobe	**Depth to Water:**	17 feet
Latitude:	40.818886°	**Longitude:**	-73.930094°

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Concrete, Asphalt, Fill Materials, and Medium Grained Brown Sand	0.0	SW
2.5 5		Medium Grained Brown and Gray Sand with Fill Materials	0.0	SW
5 7.5		Asphalt, Fill Materials, Medium Grained Brown Sand	0.0	SW
7.5 10		Same as Above	0.0	SW
10 12.5		Medium Grained Brown Sand and Fill Material	112.1	SW
12.5 15	Sample Collected for Analysis	Medium Grained Brown Sand, Coal Ash with Odor, Fill Material	1354	SW
15 17.5	Sample Collected for Analysis	Same as Above, Petroleum Odor, Saturated at 17 feet	185.3	SW
17.5 20		Same as Above	263.1	SW
20 22.5		Medium and Fine Grained Brown Sand	14.6	SW
22.5 25		Same as Above	66.8	SW
25 27.5	Sample Collected for Analysis	Medium Grained Brown Sand and Fine Grained Clay-Like Sand	0.0	SW
27.5 30		Same as Above	0.0	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP6)		
Date: 11/13/2023		**Total Depth:** 30 feet	
Location: 100 East 149th Street		**Sampling Interval:** 2 to 5 feet	
Bronx, New York		**Sampling Method:** Grab	
Boring No: 23SP6		**Driller:** PG Environmental Services, Inc.	
Drilling Method: Track Mounted Geoprobe		**Depth to Water:** 16 to 17 feet	
Latitude: 40.818836°		**Longitude:** -73.929997°	

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Asphalt, Fill Materials, and Medium Grained Brown Sand	0.0	SW
2.5 5		Fill Materials, Medium Grained Brown Sand	0.0	SW
5 7.5		Same as Above	0.0	SW
7.5 10		Same as Above	0.0	SW
10 12.5		Same as Above	41.3	SW
12.5 15	Sample Collected for Analysis	Dark Gray Medium Grained Brown Sand, Coal Ash, Fill Material with Petroleum Odor, Moist	385.7	SW
15 17.5	Sample Collected for Analysis	Medium Grained Brown Sand, Dark Gray Medium Grained Brown Sand, Fill Materials, Saturated at 16 to 17 feet	255.3	SW
17.5 20		Coal Ash, Medium Grained Brown Sand	16.7	SW
20 22.5		Same as Above	0.0	SW
22.5 25	Sample Collected for Analysis	Same as Above	0.0	SW
25 27.5		Fine Grained Brown Sand, Brown/Gray Clay-like Sand		SW
27.5 30		Fine Grained Brown Sand and Brown Clay-like Sand		SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP7)

Date:	11/9/2023	**Total Depth:**	30 feet
Location:	100 East 149th Street	**Sampling Interval:**	2 to 5 feet
	Bronx, New York	**Sampling Method:**	Grab
Boring No:	23SP7	**Driller:**	PG Environmental Services, Inc.
Drilling Method:	Track Mounted Geoprobe	**Depth to Water:**	15 feet
Latitude:	40.818786°	**Longitude:**	-73.930092°

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Medium to Coarse Grained Brown Soil	3.1	SW
2.5 5		Same as Above	2.8	SW
5 8		Fine to Medium Grained Brown Sand with Rocks and Brick Pieces, Asphalt	0.0	SW
8 10		Same as Above, Concrete	18.4	SW
10 12		Same as Above, Fine Grained Brown Clay-like Sand, Asphalt	35.0	SW
12 14	Sample Collected for Analysis	Asphalt, Fine Grained Black Clay-like Sand with Rocks, Petroleum Odor	2115	SW
14 16	14-18' Sample Collected for Analysis	Fine Grained Moist Black Clay-like Sand, Wet at 15-feet, Petroleum Odor	979.1	SW
16 18		Wet Fine to Medium Grained Black Sand with Rocks, Petroleum Odor	10.4	SW
18 20		Same as Above	1.1	SW
20 22.5		Moist Black and Dark Gray Fine Grained Clay-like Sand	2.6	SW
22.5 25		Fine Grained Clay-like Sand and Moist Brown Fine Grained Clay-like Sand, Petroleum Odor	0.0	SW
25 27.5		Moist Brown Fine Grained Clay-like Sand and Wet Medium to Coarse Grained Brown Sand	1.6	SW
27.5 30	Sample Collected for Analysis	Wet Medium to Coarse Grained Brown Sand, Moist Fine to Medium Grained Brown Sand	0.0	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP8)

Date:	11/6/2023	**Total Depth:**	27.5 feet
Location:	100 East 149th Street	**Sampling Interval:**	2.5 feet
	Bronx, New York	**Sampling Method:**	Grab
Boring No:	23SP8	**Driller:**	PG Environmental Services, Inc.
Drilling Method:	Track Mounted Geoprobe	**Depth to Water:**	10 feet
Latitude:	40.818819°	**Longitude:**	-73.930158°

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Concrete, Asphalt, Fill Material, Medium Grained Brown Sand	0.0	SW
2.5 5		Fill Material, Medium Grained Brown Sand	0.0	SW
5 7.5		Same as Above	1.3	SW
7.5 10		Same as Above, Water at 10 feet	9.8	SW
10 12.5	Sample Collected for Analysis	Fill Material, Medium Grained Brown Sand	91.3	SW
12.5 15	14-16' Sample Collected for Analysis	Medium Grained Gray Sand, Coal Ash, Fill Material	180.3	SW
15 17.5		Medium Grained Brown Sand, Fine Grained Brown Clay-like Sand, Product Odor	740.1	SW
17.5 20		Same as Above	251.9	SW
20 22.5		Medium Grained Brown Sand, Fine Grained Brown Clay-like Sand	61.1	SW
22.5 25		Fine Grained Brown Sand	4.9	
25 27.5	Sample Collected for Analysis	Same as Above	2.0	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP9)

Date:	11/6/2023	**Total Depth:**	27.5 feet
Location:	100 East 149th Street	**Sampling Interval:**	2.5 feet
	Bronx, New York	**Sampling Method:**	Grab
Boring No:	23SP9	**Driller:**	PG Environmental Services, Inc.
Drilling Method:	Track Mounted Geoprobe	**Depth to Water:**	10 feet
Latitude:	40.819019°	**Longitude:**	-73.930111°

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Asphalt, Some Fill Materials, Gravel, Medium Grained Brown Sand	0.0	SW
2.5 5		Same as Above	0.0	SW
5 7.5		Asphalt, Gravel, Medium Grained Brown Sand	71.3	SW
7.5 10		Gravel, Fill Material, Medium Grained Brown Sand, Water at 10 feet, Petroleum Odor	107.3	SW
10 12.5	Sample Collected for Analysis	Fill Material, Medium Grained Brown Sand, Fine Grained Gray Clay-like Sand, Petroleum Odor	157.3	SW
12.5 15	Sample Collected for Analysis	Fine Grained Gray Clay-like Sand, Timber Pieces, Medium Grained Brown Sand, Coal Ash, Medium Grained Gray Sand with Fill Material, Petrleum Odor	220.3	SW
15 17.5		Medium Grained Brown Sand, Gray Clay-like Sand	188.1	SW
17.5 20		Same as Above	150.3	SW
20 22.5		Fine and Medium Grained Brown Sand, Rocks, Fine Grained Brown Clay-like Sand	40.1	SW
22.5 25		Same as Above	3.1	SW
25 27.5	Sample Collected for Analysis	Fine Grained Brown Sand	1.3	SW

Touchstone Environmental Geology, PC	Soil Probe Log (23SP10)

Date:	11/6/2023	**Total Depth:**	30 feet
Location:	100 East 149th Street	**Sampling Interval:**	2.5 feet
	Bronx, New York	**Sampling Method:**	Grab
Boring No:	23SP10	**Driller:**	PG Environmental Services, Inc.
Drilling Method:	Track Mounted Geoprobe	**Depth to Water:**	10 feet
Latitude:	40.819058°	**Longitude:**	-73.930003°

Depth Below Grade and Lithology		Soil Description	PID Reading (PPM)	USGS Symbol
0 - 2.5	Sample Collected for Analysis	Concrete, Medium Grained Brown Sand, Gravel, Asphalt	2.3	SW
2.5 5		Medium Grained Brown Sand, Fill Material	3.1	SW
5 7.5		Medium Grained Brown Sand, Rocks, Concrete	19.3	SW
7.5 10		Medium Grained Brown Sand, Rocks, Fill Material	47.8	SW
10 12.5		Medium Grained Brown Sand with Rocks, Fill Material	1101.3	SW
12.5 15	Sample Collected for Analysis	Same as Above	871.3	SW
15 17.5		Medium Grained Brown Sand, Fine Grained Brown and Gray Clay-like Sand	201.3	SW
17.5 20	18-22' Sample Collected for Analysis	Fine Grained Brown Sand, Fine Grained Gray and Dark Brown Clay-like Sand	20.3	SW
20 22.5		Fine Grained Gray and Brown Clay-like Sand, Fine Grained Brown Sand	14.1	SW
22.5 25		Same as Above	2.6	SW
25 27.5	Sample Collected for Analysis	Fine Grained Brown Sand	0.3	SW

Appendix G

Monitoring Well Construction Logs

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

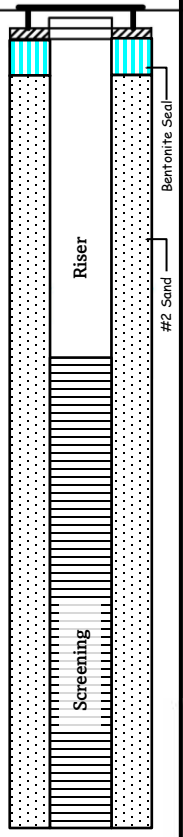
Touchstone Environmental Geology, P.C.
1919 MIDDLE COUNTRY ROAD, SUITE 205
CENTEREACH, NY 11720
T: 631-315-2733

WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/17/2023 Page: 1

Well Number:	23MW1	Screen Size:	0.010"
Drilling Method:	Geoprobe	Screen Interval:	15'
Total Depth:	25'	Diameter:	2"
Depth to Water:	13.04'	Riser Length:	10'
Manhole Size:	5"	Sand Size:	#2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0			- Bentonite Seal: 0-1 ft
2			- #2 Sand: 1-25 ft
4			- Riser: 0-10 ft
6			- Screen: 10-25 ft
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

Touchstone Environmental Geology, P.C.
1919 MIDDLE COUNTRY ROAD, SUITE 205
CENTEREACH, NY 11720
T: 631-315-2733

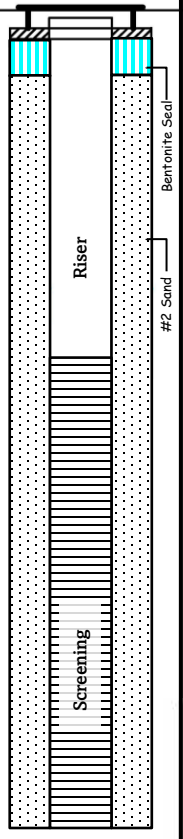
WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/17/2023 Page: 1

Well Number: 23MW2
Drilling Method: Geoprobe
Total Depth: 25'
Depth to Water: 13.42'
Manhole Size: 5"

Screen Size: 0.010"
Screen Interval: 15'
Diameter: 2"
Riser Length: 10'
Sand Size: #2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0			- Bentonite Seal: 0-1 ft - #2 Sand: 1-25 ft - Riser: 0-10 ft - Screen: 10-25 ft
2			
4			
6			
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

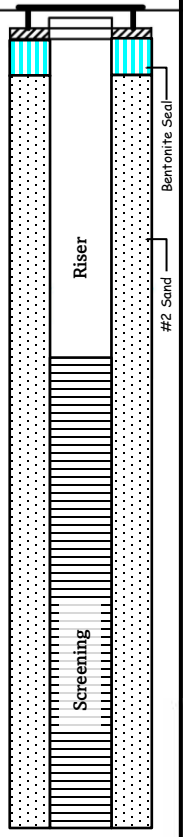
Touchstone Environmental Geology, P.C.
1919 MIDDLE COUNTRY ROAD, SUITE 205
CENTEREACH, NY 11720
T: 631-315-2733

WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/17/2023 Page: 1

Well Number:	23MW3	Screen Size:	0.010"
Drilling Method:	Geoprobe	Screen Interval:	15'
Total Depth:	25'	Diameter:	2"
Depth to Water:	13.01'	Riser Length:	10'
Manhole Size:	5"	Sand Size:	#2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0			- Bentonite Seal: 0-1 ft
2			- #2 Sand: 1-25 ft
4			- Riser: 0-10 ft
6			- Screen: 10-25 ft
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

Touchstone Environmental Geology, P.C.
1919 MIDDLE COUNTRY ROAD, SUITE 205
CENTEREACH, NY 11720
T: 631-315-2733

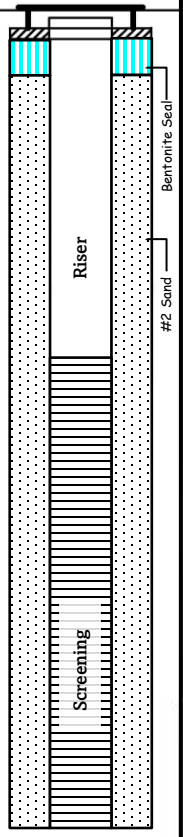
WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/21/2023 Page: 1

Well Number: 23MW4
Drilling Method: Geoprobe
Total Depth: 25'
Depth to Water: 13.27'
Manhole Size: 5"

Screen Size: 0.010"
Screen Interval: 15'
Diameter: 2"
Riser Length: 10'
Sand Size: #2

Depth Below Grade (ft.)	Sample Interval (ft.)	Well Construction	Description
0 2 4 6 8 10 12 14 16 18 20 22 24 26			- Bentonite Seal: 0-1 ft - #2 Sand: 1-25 ft - Riser: 0-10 ft - Screen: 10-25 ft

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

Touchstone Environmental Geology, P.C.
1919 MIDDLE COUNTRY ROAD, SUITE 205
CENTEREACH, NY 11720
T: 631-315-2733

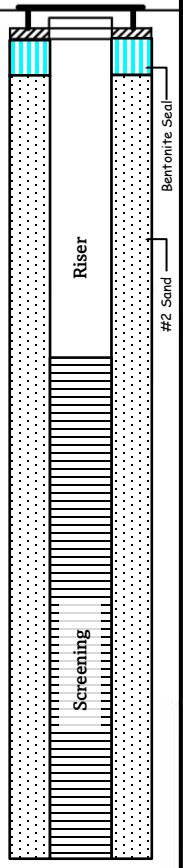
WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/21/2023 Page: 1

Well Number: 23MW5
Drilling Method: Geoprobe
Total Depth: 26'
Depth to Water: 13.04'
Manhole Size: 5"

Screen Size: 0.010"
Screen Interval: 15'
Diameter: 2"
Riser Length: 11'
Sand Size: #2

Depth Below Grade (ft.)	Sample Interval (ft.)	Well Construction	Description
0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26			- Bentonite Seal: 0-1 ft - #2 Sand: 1-25 ft - Riser: 0-11 ft - Screen: 11-26 ft

TOUCHSTONE ENVIRONMENTAL GEOLOGY P.C.

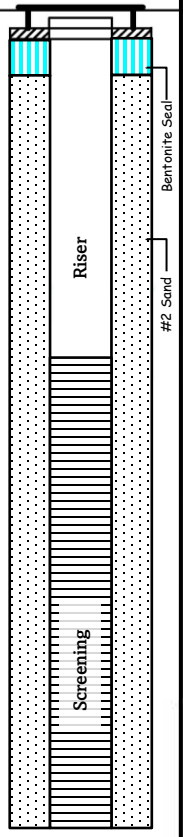
Touchstone Environmental Geology, P.C.
1919 MIDDLE COUNTRY ROAD, SUITE 205
CENTEREACH, NY 11720
T: 631-315-2733

WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/21/2023 Page: 1

Well Number:	23MW6	Screen Size:	0.010"
Drilling Method:	Geoprobe	Screen Interval:	15'
Total Depth:	25'	Diameter:	2"
Depth to Water:	13.01'	Riser Length:	10'
Manhole Size:	5"	Sand Size:	#2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0 2 4 6 8 10 12 14 16 18 20 22 24 26			- Bentonite Seal: 0-1 ft - #2 Sand: 1-25 ft - Riser: 0-10 ft - Screen: 10-25 ft

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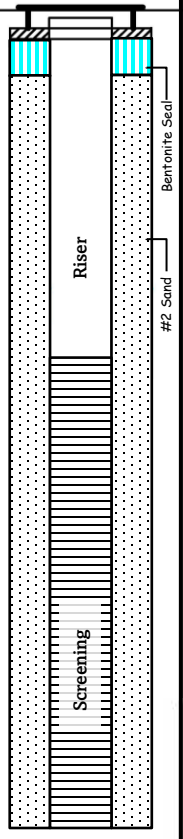
WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/21/2023 Page: 1

Well Number:	23MW7	Screen Size:	0.010"
Drilling Method:	Geoprobe	Screen Interval:	15'
Total Depth:	25'	Diameter:	2"
Depth to Water:	12.98'	Riser Length:	10'
Manhole Size:	5"	Sand Size:	#2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0			- Bentonite Seal: 0-1 ft
2			- #2 Sand: 1-25 ft
4			- Riser: 0-10 ft
6			- Screen: 10-25 ft
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			

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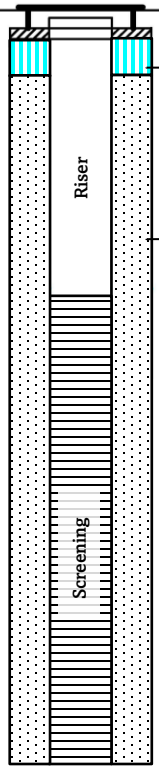
CENTEREACH, NY 11720
T: 631-315-2733

WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/17/2023 Page: 1

Well Number:	23MW8	Screen Size:	0.010"
Drilling Method:	Geoprobe	Screen Interval:	15'
Total Depth:	23'	Diameter:	2"
Depth to Water:	11.48'	Riser Length:	8'
Manhole Size:	5"	Sand Size:	#2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0			- Bentonite Seal: 0-1 ft
2			- #2 Sand: 1-23 ft
4			- Riser: 0-8 ft
6			- Screen: 8-23 ft
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			

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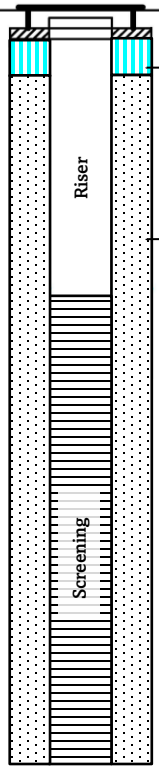
T: 631-315-2733

WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/17/2023 Page: 1

Well Number:	23MW9	Screen Size:	0.010"
Drilling Method:	Geoprobe	Screen Interval:	15'
Total Depth:	23'	Diameter:	2"
Depth to Water:	12.55'	Riser Length:	8'
Manhole Size:	5"	Sand Size:	#2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0			- Bentonite Seal: 0-1 ft
2			- #2 Sand: 1-23 ft
4			- Riser: 0-8 ft
6			- Screen: 8-23 ft
8			
10			
12			
14			
16			
18			
20			
22			
24			
26			

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CENTEREACH, NY 11720
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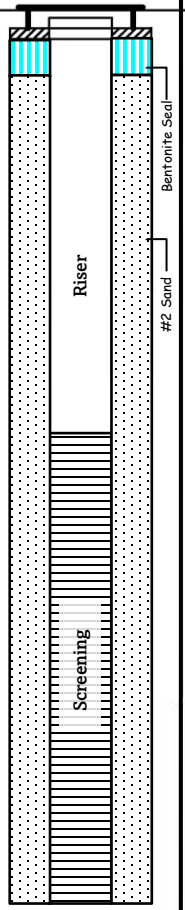
WELL CONSTRUCTION LOG

SITE ID: 100 EAST 149TH STREET SITE BCP NO. C203159

Location: 100 EAST 149TH STREET, BRONX, NY Date: 11/17/2023 Page: 1

Well Number:	23MW10	Screen Size:	0.010"
Drilling Method:	Geoprobe	Screen Interval:	15'
Total Depth:	27.5'	Diameter:	2"
Depth to Water:	13.25'	Riser Length:	12.5'
Manhole Size:	5"	Sand Size:	#2

Depth Below Grode (ft.)	Sample Interval (ft.)	Well Construction	Description
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28			- Bentonite Seal: 0-1 ft - #2 Sand: 1-25 ft - Riser: 0-12.5 ft - Screen: 12.5-27.5 ft

Appendix H

Certified Well Survey

LEGEND
(NOT FOR TITLE PURPOSES)
JOB # 2351Bx35#14571

GAS VALVE | MUNI METER | TRAFFIC SIGN | HYDRANT HYD. | X' TREE | LIGHT POST | CATCH BASIN | UTILITY POLE | PHONE TEL. | WATER VALVE | D.W.S WATER | TEL. MANHOLE | SEWER MANHOLE | ELECTRIC MANHOLE

CL. CLEAR | L.A LOWER AREA | W.W WINDOW WELL | C.D CELLAR DOOR | F.E FIRE ESCAPE | ENT. UND. ENTRANCE UNDER | A. AREAWAY | RT. RIGHT | CONC. CONCRETE | C.S CELLAR STEPS | C.D CELLAR DOOR | BSM'T BASEMENT | IND'T INDEPENDENT | RET. RETAINING | ENL. ENCLOSURE

– ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

0' 4' 8' 12' 20' 28'

SCALE 1: 12

MONITORING WELL	Northing	Easting	MON	RIM
23MW1	237672.27	1003607.30	16.91'	16.16'
23MW2	237656.58	1003634.17	17.37'	17.13'
23MW3	237657.42	1003605.23	16.87'	16.69'
23MW4	237648.18	1003619.69	17.03'	16.68'
23MW5	237624.35	1003598.95	16.19'	
23MW6	237613.57	1003627.22	16.87'	
23MW7	237587.12	1003605.79	16.49'	
23MW8	237601.05	1003583.72	15.57'	15.02'
23MW9	237674.61	1003596.60	16.14'	15.83'
23MW10	237686.06	1003630.74	17.12'	16.90'

34.07' (TAX MAP)
34.18' (DEED)

23MW7
TOP CONC. EL=16.49

23MW8
COVER EL=15.57
RIM.=15.02

STREET

23MW6
TOP CONC. EL=16.87

23MW5
TOP CONC. EL=16.19

104.22' (TAX MAP)
99.73' (DEED)

100.00' (DEED)
101.07' (TAX MAP)

23MW4
COVER EL=17.03
RIM=16.68

EXTERIOR

23MW3
COVER EL=16.87
RIM=16.69

23MW2
COVER EL=17.37
RIM=17.13

23MW1
COVER EL=16.91
RIM=16.66

23MW9
COVER EL=16.14
RIM=15.83

94°49'26.00"

46.69'

23MW10
COVER EL=17.12
RIM=16.90

EAST 149th. STREET

MONITORING WELL SURVEY

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY. GUARANTEES OR CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. GUARANTEES OR CERTIFICATION ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

SURVEYED : JANUARY 12, 2024	
UPDATED :	
UPDATED :	
SCALE: 1"=12'	
BLOCK:	2351
LOT(s):	40
SECTION:	8
COUNTY:	KINGS
DWG BY:	AAA-Ro

STATEWIDE LAND SURVEYING P.C.
16 Flagg Pl., Staten Island, NY 10304

VINCENT M. TEUTONICO L.S., PRES.
Registration No. 050307

SURVEY PREPARED FOR
AAA GROUP

INFO@AAAGROUPONLINE.COM
TEL. (718) 387-9800 , FAX 384-5050

Appendix I

DUSR Reports

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: 23K0580
16 Soil Samples, 2 Trip blanks, and 1 Field Blank

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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5.0	DATA VALIDATION QUALIFIERS	3
6.0	RESULTS OF THE DATA REVIEW	4
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Table 6-8 Mercury
Table 6-9 Cr+6 and TCN

REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K0580 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K0580, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/19/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 06, 2023
SAMPLE TYPE:	16 soil samples, 2 trip blanks and 1 field blank
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K0580

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 16 soil samples, 2 trip blanks, and 1 field blank collected on November 06, 2023. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), 1,4-Dioxane, PFASs, Pesticides, PCBs, Metals, Hexavalnet Chromium (Cr+6), and Total Cyanide (TCN).

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K0580. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Tables 6-1 through 6-9. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K0580, nineteen samples were analyzed and results were reported for 4048 analytes. Nineteen results were rejected. Even though some results were flagged with a "J" as estimated, all other results (99.5 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	1,4-Dioxane	J detects R non-detects	ICAL RF < 0.005	Since all results are non-detect, the results are rejected
23SP9 (12.5-15ft) 23SP8 (0-2.5ft) 23SP8 (14-16ft) 23SP8 (14-16ft) RE 23SP10 (0-2ft) 23SP10 (18-22ft) 23SP1 (12.5-15ft) 23SP1 (12.5-15ft)RE	All analytes	J detects UJ non-detects	Surr rec for 1,2-DCEd4 < QC limits	Data are estimated
23SP10 (18-22ft) RE	All analytes	J detects UJ non-detects	Surr rec for TOLd8 < QC limits	Data are estimated
23SP9 (25-27ft) 23SP10 (12.5-15ft) 23SP10 (18-22ft)RE	All analytes	J detects UJ non-detects	All Int Std areas < QC limits	Data are estimated
23SP8 (14-16ft) 23SP10 (18-15ft) 23SP1 (12.5-15ft) 23SP1 (12.5-15ft)RE	Benzene Cyclohexane Methylcyclohexane Toluene	J detects	Int Std area for Fluorobenzene > QC limits	Data are estimated
Trip Blank 11-06-23 Trip Blank 11-07-23	2-Butanone 2-Hexanone	J detects UJ non-detects	ICAL RF <0.1	Data are estimated
Trip Blank 11-06-23 Trip Blank 11-07-23	Acetone Acrolein Bromomethane Tetrachloroethene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated

All soils	2-Butanone 2-Hexanone Bromoform Bromomethane	J detects UJ non-detects	ICAL RF <0.1	Data are estimated
All soils	1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane DBCP 4-Methyl-2-pentanone Acetone Choroethane Chloromethane Tetrachloroethene Bromodichloromethane Carbon disulfide Carbon tetrachloride Dibromochloromethane	J detects UJ non-detects	ICAL % RSD and/or ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated
23SP9 (0-2.5ft) 23SP9 (10-12ft) 23SP9 (12.5-15ft) 23SP8 (0-2.5ft) 23SP8 (10-12.5ft) 23SP8 (14-16ft) 23SP8 (25-27.5ft)	Freon 113 1,1-Dichoroethene Acrolein MTBE TBA trans-1,3-Dichloropropene	J detects UJ non-detects	CCV % D > QC limits	Data are estimated
23SP9 (25-27ft) 23SP10 (12.5-15ft) 23SP10 (18-22ft) 23SP1 (0-2.5ft) 23SP1 (10-12.5ft) 23SP1 (22.5-25ft)	Freon 113 1,1-Dichoroethene Acrolein trans-1,3-Dichloropropene	J detects UJ non-detects	CCV % D > QC limits	Data are estimated

23SP10 (0-2.5ft) 23SP10 (25-27.5ft) 23SP1 (12.5-15ft)	cis-1,3-Dichloropropylene TBA trans-1,3-Dichloropropene	J detects UJ non-detects	CCV % D > QC limits	Data are estimated

Table 6-2 SVOCs - Scan

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP10 (0-2.5ft)	All AE analytes	J detects UJ non-detects	Surr rec for 2FP, P-d6, and TBP < QC limits	Data are estimated
22SP1 (22.5-25ft)	2,4-Dinitrophenol 4,6-Dinitrop-2-methylphenol Benzoic acid Hexachlorocyclopentadiene	J detects UJ non-detects	MS rec < QC limits	Data are estimated
23SP1 (0-2.5ft)	All detected analytes	J detects	All Int Std areas > QC limits	Data are estimated
23SP9 (0-2.5ft) 23SP9 (10-12ft) 23SP9 (12.5-15ft) 23SP9 (25-27ft) 23SP8 (0-2.5ft) 23SP8 (10-12.5ft)	2-Methylphenol 2,4-dinitrophenol 4,6-Dinitrophenol-2-methylphenol Di-n-octyl phthalate Hexachlorocyclopentadiene	J detects UJ non-detects	ICAL % RSD and/or CCV % D > QC limits	Data are estimated
23SP8 (14-16ft) 23SP8 (25-27.5ft) 23SP10 (0-2.5ft) 23SP10 12.5-15ft) 23SP10 (18-22ft) 23SP10 (25-27.5ft)	2,4-Dinitrophenol 4,6-Dinitrophenol-2-methylphenol Benzidine Hexachlorocyclopentadiene Pentachlorophenol	J detects UJ non-detects	ICAL % RSD and/or CCV % D > QC limits	Data are estimated

23SP1 (0-2.5ft) 23SP1 (10-12.5ft) 23SP1 (12.5-15ft) 23SP1 (22.5-25ft)				

Table 6-3 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP8 (0-2.5ft) 23SP8 (10-12.5ft) 23SP8 (14-16ft) 23SP10 (18-22ft)RE 23SP1 (0-2.5ft) 23SP1 (10-12.5ft)	PFBS	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
23SP10 (0-2.5ft) 23SP10 12.5-15ft) 23SP10 (25-27.5ft)	PFBS PFPeA	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
PFAS Field Blank	PFBS PFPeA 8:2FTS	J detects UJ non-detects	Sur rec < QC limits	Data are estimated

23SP10 (18-22ft)	N-MeFOSAA	J detects R non-detects	LCS rec < 0 %	Since all results are non-detect, the results are rejected
All samples	8:2 FTS 4:2 FTS 6:2 FTS	J detects UJ non-detects	ICAL Qual cod < 0.995	Data are estimated
23SP9 (0-2.5ft) 23SP9 (10-12ft) 23SP9 (12.5-15ft) 23SP9 (25-27ft) 23SP8 (0-2.5ft) 23SP8 (10-12.5ft) 23SP8 (14-16ft) 23SP8 (25-27.5ft) 23SP10 (0-2.5ft) 23SP10 12.5-15ft) 23SP10 (25-27.5ft) 23SP1 (0-2.5ft) 23SP1 (10-12.5ft) 23SP1 (12.5-15ft) 23SP1 (22.5-25ft)	11CL-PF3OUdS FHpPA FPePA FPrPA 9CL-PF3ONS ADONA HFPO-DA PFEESA PFDS PFNS NFDHA PFMPA PFMBA PFDoS	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated
23SP10 (18-22ft)RE	11CL-PF3OUdS N-EtFOSA PFEESA PFNS NFDHA PFMPA PFMBA PFDoS	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated

PFAS Field Blank	11CL-PF3OUdS 9CL-PF3ONS HFPO-DA N-EtFOSA PFEESA NFDHA PFMPA PFMBA PFHpA PFOS PFHxS	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated

Table 6-5 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 ICP Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
22SP10 (25-27.5ft) 23SP1 (0-2.5ft) 22SP1 (10-12.5ft) 23SP1 (12.5-15ft) 23SP1 (22.5-25ft)	Ag	J- detects UJ non-detects	SRM rec < QC limit	Data are biased low
All soil samples	Sb	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low
All soil samples	Ba, Na, and Zn	J+ detects	Interference check and/or SRM rec > QC limit	Data are biased high
22SP9 (25-27.5ft) 23SP8 (2-27.5ft)	Pb	J detects	Analyte detected in method blank	Data are estimated

Table 6-8 Mercury

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP9 (0-2.5ft)	Hg	J+ detects	ICV % D > 110 %	Data are biased high

Table 6-9 Cr+6 and TCN

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP8 (25-27.5ft)	Cr+6	J- detects UJ non-detects	MS rec < QC limit	Data are biased low

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/10/2023
Client Project ID: 220293 100 East 149th Street
York Project (SDG) No.: 23K0580

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Work Order Narrative

York Analytical Work Order No.: 23K0580

Client : Touchstone Environmental Geology, PC

Client Project ID : 220293 100 East 149th Street

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/08/2023 4:35 PM

20 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{1.2}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23SP9 (0-2.5ft)	23K0580-01	Soil	11/06/2023 10:00 AM	11/08/2023 4:35 PM
23SP9 (10-12.5ft)	23K0580-02	Soil	11/06/2023 10:15 AM	11/08/2023 4:35 PM
23SP9 (12.5-15ft)	23K0580-03	Soil	11/06/2023 10:20 AM	11/08/2023 4:35 PM
23SP9 (25-27.5ft)	23K0580-04	Soil	11/06/2023 10:35 AM	11/08/2023 4:35 PM
23SP8 (0-2.5ft)	23K0580-05	Soil	11/06/2023 10:45 AM	11/08/2023 4:35 PM
23SP8 (10-12.5ft)	23K0580-06	Soil	11/06/2023 10:50 AM	11/08/2023 4:35 PM
23SP8 (14-16ft)	23K0580-07	Soil	11/06/2023 11:00 AM	11/08/2023 4:35 PM
23SP8 (25-27.5ft)	23K0580-08	Soil	11/06/2023 11:10 AM	11/08/2023 4:35 PM
Trip Blank 11-06-23	23K0580-09	Water	11/06/2023 3:00 PM	11/08/2023 4:35 PM
PFAS Field Blank	23K0580-10	Water	11/06/2023 12:00 AM	11/08/2023 4:35 PM
23SP10 (0-2.5ft)	23K0580-11	Soil	11/06/2023 1:15 PM	11/08/2023 4:35 PM
23SP10 (12.5-15ft)	23K0580-12	Soil	11/06/2023 2:00 PM	11/08/2023 4:35 PM
23SP10 (18-22ft)	23K0580-13	Soil	11/06/2023 2:20 PM	11/08/2023 4:35 PM
23SP10 (25-27.5ft)	23K0580-14	Soil	11/06/2023 2:30 PM	11/08/2023 4:35 PM
23SP1 (0-2.5ft)	23K0580-15	Soil	11/07/2023 10:50 AM	11/08/2023 4:35 PM
23SP1 (10-12.5ft)	23K0580-16	Soil	11/07/2023 11:15 AM	11/08/2023 4:35 PM
23SP1 (12.5-15ft)	23K0580-17	Soil	11/07/2023 11:30 AM	11/08/2023 4:35 PM
23SP1 (22.5-25ft)	23K0580-18	Soil	11/07/2023 11:45 AM	11/08/2023 4:35 PM
23SP9 (6-9ft)	23K0580-19	Soil	11/06/2023 3:00 PM	11/08/2023 4:35 PM
Trip Blank 11-07-23	23K0580-20	Water	11/07/2023 3:00 PM	11/08/2023 4:35 PM

WorkOrder Comments

.

2.0 Methodology

Analysis Class	Preparation Method	Analysis Methodology
VOA	EPA 5030B	EPA 8260D
VOA	EPA 5035A	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D SIM
PFAS	EPA 1633 Prep	EPA 1633 Draft 3
PEST	EPA 3550C	EPA 8081B
ARO	EPA 3550C	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	Analysis Preparation	Calculation
WET	EPA SW846-3060	EPA 7196A
WET	Analysis Preparation Soil	EPA 9014/9010C
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

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YORK Project No. 23K0580

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th. St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X
- PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

F. Ataman

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)
UUSCO
RUSCO

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP9 (0-2.5ft.)	S	11/6/23 10:00	TCL+10 UOCs and TICs,	12 1802., 4 vials (1) PFAS plastic	
23SP9 (10-12.5)		10:15	TCL+20 SVOCs and TICs,		
23SP9 (12.5-15ft.)		10:20	Pesticides EPA Method 8081,		
23SP9 (25-30ft)		10:35	PCBs EPA Method 8082, 21		
23SP8 (0-25ft.)		10:45	PFAS compounds via EPA		
23SP8 (10-12.5)		10:50	Method 1633, 1,4 dioxane		
23SP8 (14-16)		11:00	via EPA method 8270 SIM		
23SP8 (25-27.5)		11:10	TAL Metals plus		
Trip Blank			cyanide and hexavalent	2 vials	
PFAS Field Blank			chromium	2 PFAS plastic	

Comments:

Terra Cores frozen at PLK KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
			11/8/2023		
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
K Barkyork	11/8/23 1245PM	K Barkyork	11/8/23 16:35		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/8/23 16:35 / 1.2 Degrees C

440 of 4650

Field Chain-of-Custody Record

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YOUR Information	Report To:	Invoice To:
Company: Tonchstone	Company: T Onchstone.	Company: Tonchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number:

YOUR Project Name: 160 E. 149th. St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)**

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Firat Atamay

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP10 (0-2.5ft)	S	11/6/23 13:15	See First Page	(2)8 oz. 4vials	
23SP10 (7.5-15ft.)		14:00		(1) PFAS plastic	
23SP10 (18-22 ft.)		14:20			
23SP10 (25-27.5ft.)		14:30			
23SP1 (0-2.5ft.)		11/7/23 10:50			
23SP1 (10-12.5ft.)		11:15			
23SP1 (12.5-15ft.)		11:30			
23SP1 (22.5-25ft.)		11:45			

Comments: Terra Cores Frozen AT P/U KB

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Samples iced/chilled at time of lab pickup? circle Yes or No

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/8/23	K Bachyork	11/8/23 1245PM	K Bachyork	11/8/23 16:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/8/23 16:35 / 1.2 Degrees C

Field Chain-of-Custody Record

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YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th. St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X
- PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

F. Ataman

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)
UUSCO
RUSCO

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP9 (0-2.5ft.)	S	11/6/23 10:00	TCL+10 UOCs and TICs,	12 1802., 4 vials (1) PFAS plastic	
23SP9 (10-12.5)		10:15	TCL+20 SVOCs and TICs,		
23SP9 (12.5-15ft.)		10:20	Pesticides EPA Method 8081,		
23SP9 ~~(25-30ft)~~ (25-27.5 ft)		10:35	PCBs EPA Method 8082, 21		
23SP8 (0-25ft.)		10:45	PFAS compounds via EPA		
23SP8 (10-12.5)		10:50	Method 1633, 1,4 dioxane		
23SP8 (14-16)		11:00	via EPA method 8270 SIM		
23SP8 (25-27.5)		11:10	TAL Metals plus		
Trip Blank 11/6/23			cyanide and hexavalent	2 vials	
PFAS Field Blank			chromium	2 PFAS plastic	

Comments:

Terra Cores frozen at plant KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
			11/8/2023		
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
K Barkyork	11/8/23 1245PM	K Barkyork	11/8/23 16:35		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/8/23 16:35 / 1.2 Degrees C

Field Chain-of-Custody Record

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YOUR Information	Report To:	Invoice To:
Company: Tonchstone	Company: T Conchstone.	Company: Tonchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number:

YOUR Project Name: 160 E. 149th. St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** ✓

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Firat Atamay

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP10 (0-2.5ft)	S	11/6/23 13:15	See First Page	(2)8 oz. 4vials	
23SP10 (7.5-15ft.)		14:00		(1) PFAS plastic	
23SP10 (18-22 ft.)		14:20			
23SP10 (25-27.5ft.)		14:30			
23SP1 (0-2.5ft.)		11/7/23 10:50			
23SP1 (10-12.5ft.)		11:15			
23SP1 (12.5-15ft.)		11:30			
23SP1 (22.5-25ft.)		11:45			
Trip Blank 11/07/23	O	11/7/23		2 vials	

Comments: Terra Cores Frozen AT P/U KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/8/23	K Bachyork	11/8/23 1245PM	K Bachyork	11/8/23 16:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/8/23 16:35 / 1.2 Degrees C

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
CLASS: VOA
METHOD: EPA 8260D

DATA PACKAGE COVER PAGE

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (14-16ft)	23K0580-07RE1
23SP8 (25-27.5ft)	23K0580-08
Trip Blank 11-06-23	23K0580-09
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (18-22ft)	23K0580-13RE1
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (12.5-15ft)	23K0580-17RE1
23SP1 (22.5-25ft)	23K0580-18
Trip Blank 11-07-23	23K0580-20

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/3/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID: V5435281.D

Sampled: 11/06/23 10:00 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 18:48

Solids: 90.53 Preparation: EPA 5030B Initial/Final: 4.93 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0056	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0056	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0056	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0056	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0056	U	
75-34-3	1,1-Dichloroethane	1	0.0056	U	
75-35-4	1,1-Dichloroethylene	1	0.0056	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.0056	U	
96-18-4	1,2,3-Trichloropropane	1	0.0056	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0056	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0056	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0056	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0056	U	
95-50-1	1,2-Dichlorobenzene	1	0.0056	U	
107-06-2	1,2-Dichloroethane	1	0.0056	U	
78-87-5	1,2-Dichloropropane	1	0.0056	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0056	U	
541-73-1	1,3-Dichlorobenzene	1	0.0056	U	
106-46-7	1,4-Dichlorobenzene	1	0.0056	U	
123-91-1	1,4-Dioxane	1	0.11	U	R
78-93-3	2-Butanone	1	0.0056	U	
591-78-6	2-Hexanone	1	0.0056	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0056	U	UJ
67-64-1	Acetone	1	0.0068	J	J
107-02-8	Acrolein	1	0.011	U	UJ
107-13-1	Acrylonitrile	1	0.0056	U	
71-43-2	Benzene	1	0.0056	U	
74-97-5	Bromochloromethane	1	0.0056	U	
75-27-4	Bromodichloromethane	1	0.0056	U	UJ
75-25-2	Bromoform	1	0.0056	U	UJ
74-83-9	Bromomethane	1	0.0056	U	UJ
75-15-0	Carbon disulfide	1	0.0056	U	UJ
56-23-5	Carbon tetrachloride	1	0.0056	U	UJ
108-90-7	Chlorobenzene	1	0.0056	U	
75-00-3	Chloroethane	1	0.0056	U	UJ
67-66-3	Chloroform	1	0.0056	U	
74-87-3	Chloromethane	1	0.0056	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0056	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0056	U	
110-82-7	Cyclohexane	1	0.0056	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID: V5435281.D

Sampled: 11/06/23 10:00 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 18:48

Solids: 90.53 Preparation: EPA 5030B Initial/Final: 4.93 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0056	U	UJ
74-95-3	Dibromomethane	1	0.0056	U	
75-71-8	Dichlorodifluoromethane	1	0.0056	U	
100-41-4	Ethyl Benzene	1	0.0056	U	
87-68-3	Hexachlorobutadiene	1	0.0056	U	
98-82-8	Isopropylbenzene	1	0.0056	U	
79-20-9	Methyl acetate	1	0.0056	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0056	U	UJ
108-87-2	Methylcyclohexane	1	0.0056	U	
75-09-2	Methylene chloride	1	0.011	U	
104-51-8	n-Butylbenzene	1	0.0056	U	
103-65-1	n-Propylbenzene	1	0.0056	U	
95-47-6	o-Xylene	1	0.0056	U	
179601-23-1	p- & m- Xylenes	1	0.011	U	
99-87-6	p-Isopropyltoluene	1	0.0056	U	
135-98-8	sec-Butylbenzene	1	0.0056	U	
100-42-5	Styrene	1	0.0056	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0056	U	UJ
98-06-6	tert-Butylbenzene	1	0.0056	U	
127-18-4	Tetrachloroethylene	1	0.0056	U	UJ
108-88-3	Toluene	1	0.0056	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0056	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0056	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0056	U	
79-01-6	Trichloroethylene	1	0.0056	U	
75-69-4	Trichlorofluoromethane	1	0.0056	U	
75-01-4	Vinyl Chloride	1	0.0056	U	
1330-20-7	Xylenes, Total	1	0.017	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.6	101	77 - 125	
SURR: Toluene-d8	50.0	47.0	94.1	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.8	106	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	248782	5.563	232821	5.562	
ISTD: Chlorobenzene-d5	1002760	8.585	946279	8.585	
ISTD: 1,2-Dichlorobenzene-d4	411592	11.553	421718	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID: V5435282.D

Sampled: 11/06/23 10:15 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 19:16

Solids: 77.74 Preparation: EPA 5030B Initial/Final: 3.86 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0083	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0083	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0083	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0083	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0083	U	
75-34-3	1,1-Dichloroethane	1	0.0083	U	
75-35-4	1,1-Dichloroethylene	1	0.0083	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.0083	U	
96-18-4	1,2,3-Trichloropropane	1	0.0083	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0083	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.013		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0083	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0083	U	
95-50-1	1,2-Dichlorobenzene	1	0.0083	U	
107-06-2	1,2-Dichloroethane	1	0.0083	U	
78-87-5	1,2-Dichloropropane	1	0.0083	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0049	J	
541-73-1	1,3-Dichlorobenzene	1	0.0083	U	
106-46-7	1,4-Dichlorobenzene	1	0.0083	U	
123-91-1	1,4-Dioxane	1	0.17	U	R
78-93-3	2-Butanone	1	0.0083	U	UJ
591-78-6	2-Hexanone	1	0.0083	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0083	U	UJ
67-64-1	Acetone	1	0.013	J	J
107-02-8	Acrolein	1	0.017	U	UJ
107-13-1	Acrylonitrile	1	0.0083	U	
71-43-2	Benzene	1	0.0083	U	
74-97-5	Bromochloromethane	1	0.0083	U	
75-27-4	Bromodichloromethane	1	0.0083	U	UJ
75-25-2	Bromoform	1	0.0083	U	UJ
74-83-9	Bromomethane	1	0.0083	U	UJ
75-15-0	Carbon disulfide	1	0.0083	U	UJ
56-23-5	Carbon tetrachloride	1	0.0083	U	UJ
108-90-7	Chlorobenzene	1	0.0083	U	
75-00-3	Chloroethane	1	0.0083	U	UJ
67-66-3	Chloroform	1	0.0083	U	
74-87-3	Chloromethane	1	0.0083	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0083	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0083	U	
110-82-7	Cyclohexane	1	0.0083	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID: V5435282.D

Sampled: 11/06/23 10:15 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 19:16

Solids: 77.74 Preparation: EPA 5030B Initial/Final: 3.86 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0083	U	UJ
74-95-3	Dibromomethane	1	0.0083	U	
75-71-8	Dichlorodifluoromethane	1	0.0083	U	
100-41-4	Ethyl Benzene	1	0.015		
87-68-3	Hexachlorobutadiene	1	0.0083	U	
98-82-8	Isopropylbenzene	1	0.0083	U	
79-20-9	Methyl acetate	1	0.0083	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0083	U	UJ
108-87-2	Methylcyclohexane	1	0.0083	U	
75-09-2	Methylene chloride	1	0.017	U	
104-51-8	n-Butylbenzene	1	0.0083	U	
103-65-1	n-Propylbenzene	1	0.0048	J	
95-47-6	o-Xylene	1	0.0083	U	
179601-23-1	p- & m- Xylenes	1	0.026		
99-87-6	p-Isopropyltoluene	1	0.0083	U	
135-98-8	sec-Butylbenzene	1	0.0083	U	
100-42-5	Styrene	1	0.0083	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0083	U	UJ
98-06-6	tert-Butylbenzene	1	0.0083	U	
127-18-4	Tetrachloroethylene	1	0.0083	U	UJ
108-88-3	Toluene	1	0.0083	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0083	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0083	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0083	U	
79-01-6	Trichloroethylene	1	0.0083	U	
75-69-4	Trichlorofluoromethane	1	0.0083	U	
75-01-4	Vinyl Chloride	1	0.0083	U	
1330-20-7	Xylenes, Total	1	0.026		

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	50.2	100	77 - 125	
SURR: Toluene-d8	50.0	46.5	93.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.9	102	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	252560	5.562	232821	5.562	
ISTD: Chlorobenzene-d5	1046308	8.585	946279	8.585	
ISTD: 1,2-Dichlorobenzene-d4	450724	11.553	421718	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-03 | File ID: V5435294.D

Sampled: 11/06/23 10:20 | Prepared: 11/12/23 08:00 | Analyzed: 11/13/23 00:46

Solids: 62.43 | Preparation: EPA 5030B | Initial/Final: 4.09 mL / 5 mL

Batch: BK30769 | Sequence: S3K1315 | Calibration: SK30017 | Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.98	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.98	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.98	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.98	U	
79-00-5	1,1,2-Trichloroethane	100	0.98	U	
75-34-3	1,1-Dichloroethane	100	0.98	U	
75-35-4	1,1-Dichloroethylene	100	0.98	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.98	U	
96-18-4	1,2,3-Trichloropropane	100	0.98	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.98	U	
95-63-6	1,2,4-Trimethylbenzene	100	1.4	D	J
96-12-8	1,2-Dibromo-3-chloropropane	100	0.98	U	UJ
106-93-4	1,2-Dibromoethane	100	0.98	U	
95-50-1	1,2-Dichlorobenzene	100	0.98	U	
107-06-2	1,2-Dichloroethane	100	0.98	U	
78-87-5	1,2-Dichloropropane	100	0.98	U	
108-67-8	1,3,5-Trimethylbenzene	100	0.70	JD	J
541-73-1	1,3-Dichlorobenzene	100	0.98	U	UJ
106-46-7	1,4-Dichlorobenzene	100	0.98	U	UJ
123-91-1	1,4-Dioxane	100	~~20~~	U	R
78-93-3	2-Butanone	100	0.98	U	UJ
591-78-6	2-Hexanone	100	0.98	U	
108-10-1	4-Methyl-2-pentanone	100	0.98	U	
67-64-1	Acetone	100	2.0	U	
107-02-8	Acrolein	100	2.0	U	
107-13-1	Acrylonitrile	100	0.98	U	
71-43-2	Benzene	100	0.98	U	
74-97-5	Bromochloromethane	100	0.98	U	
75-27-4	Bromodichloromethane	100	0.98	U	
75-25-2	Bromoform	100	0.98	U	
74-83-9	Bromomethane	100	0.98	U	
75-15-0	Carbon disulfide	100	0.98	U	
56-23-5	Carbon tetrachloride	100	0.98	U	
108-90-7	Chlorobenzene	100	0.98	U	
75-00-3	Chloroethane	100	0.98	U	
67-66-3	Chloroform	100	0.98	U	
74-87-3	Chloromethane	100	0.98	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.98	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.98	U	
110-82-7	Cyclohexane	100	0.98	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID: V5435294.D

Sampled: 11/06/23 10:20 Prepared: 11/12/23 08:00 Analyzed: 11/13/23 00:46

Solids: 62.43 Preparation: EPA 5030B Initial/Final: 4.09 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.98	U	UJ
74-95-3	Dibromomethane	100	0.98	U	
75-71-8	Dichlorodifluoromethane	100	0.98	U	
100-41-4	Ethyl Benzene	100	0.98	U	
87-68-3	Hexachlorobutadiene	100	0.98	U	
98-82-8	Isopropylbenzene	100	1.9	D	J
79-20-9	Methyl acetate	100	0.98	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.98	U	UJ
108-87-2	Methylcyclohexane	100	16	D	J
75-09-2	Methylene chloride	100	2.0	U	UJ
104-51-8	n-Butylbenzene	100	5.2	D	J
103-65-1	n-Propylbenzene	100	7.0	D	J
95-47-6	o-Xylene	100	0.98	U	UJ
179601-23-1	p- & m- Xylenes	100	2.0	U	UJ
99-87-6	p-Isopropyltoluene	100	0.98	U	UJ
135-98-8	sec-Butylbenzene	100	2.4	D	J
100-42-5	Styrene	100	0.98	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	0.98	U	
98-06-6	tert-Butylbenzene	100	0.98	U	
127-18-4	Tetrachloroethylene	100	0.98	U	
108-88-3	Toluene	100	0.98	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.98	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.98	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.98	U	
79-01-6	Trichloroethylene	100	0.98	U	
75-69-4	Trichlorofluoromethane	100	0.98	U	
75-01-4	Vinyl Chloride	100	0.98	U	
1330-20-7	Xylenes, Total	100	2.9	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	32.7	65.4	77 - 125	D
SURR: Toluene-d8	50.0	48.8	97.7	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	51.4	103	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	311928	5.563	232821	5.562	
ISTD: Chlorobenzene-d5	849547	8.585	946279	8.585	
ISTD: 1,2-Dichlorobenzene-d4	361557	11.553	421718	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	V5435316.D
Sampled:	11/06/23 10:35	Prepared:	11/13/23 09:00	Analyzed:	11/13/23 16:36
Solids:	83.70	Preparation:	EPA 5035A	Initial/Final:	6.62 g / 5 ml
Batch:	BK30784	Sequence:	S3K1416	Calibration:	SK30017	Instrument:	VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0045	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0045	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0045	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0045	U	
79-00-5	1,1,2-Trichloroethane	1	0.0045	U	
75-34-3	1,1-Dichloroethane	1	0.0045	U	
75-35-4	1,1-Dichloroethylene	1	0.0045	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0045	U	
96-18-4	1,2,3-Trichloropropane	1	0.0045	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0045	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0050		J
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0045	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0045	U	
95-50-1	1,2-Dichlorobenzene	1	0.0045	U	
107-06-2	1,2-Dichloroethane	1	0.0045	U	
78-87-5	1,2-Dichloropropane	1	0.0045	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0045	U	
541-73-1	1,3-Dichlorobenzene	1	0.0045	U	
106-46-7	1,4-Dichlorobenzene	1	0.0045	U	
123-91-1	1,4-Dioxane	1	~~0.090~~	U	R
78-93-3	2-Butanone	1	0.0045	U	UJ
591-78-6	2-Hexanone	1	0.0045	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0045	U	UJ
67-64-1	Acetone	1	0.026		J
107-02-8	Acrolein	1	0.0090	U	UJ
107-13-1	Acrylonitrile	1	0.0045	U	
71-43-2	Benzene	1	0.0045	U	
74-97-5	Bromochloromethane	1	0.0045	U	
75-27-4	Bromodichloromethane	1	0.0045	U	
75-25-2	Bromoform	1	0.0045	U	
74-83-9	Bromomethane	1	0.0045	U	
75-15-0	Carbon disulfide	1	0.0045	U	
56-23-5	Carbon tetrachloride	1	0.0045	U	
108-90-7	Chlorobenzene	1	0.0045	U	
75-00-3	Chloroethane	1	0.0045	U	
67-66-3	Chloroform	1	0.0045	U	
74-87-3	Chloromethane	1	0.0045	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0045	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0045	U	
110-82-7	Cyclohexane	1	0.0045	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-04 | File ID: V5435316.D

Sampled: 11/06/23 10:35 | Prepared: 11/13/23 09:00 | Analyzed: 11/13/23 16:36

Solids: 83.70 | Preparation: EPA 5035A | Initial/Final: 6.62 g / 5 ml

Batch: BK30784 | Sequence: S3K1416 | Calibration: SK30017 | Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0045	U	UJ
74-95-3	Dibromomethane	1	0.0045	U	UJ
75-71-8	Dichlorodifluoromethane	1	0.0045	U	UJ
100-41-4	Ethyl Benzene	1	0.0046		J
87-68-3	Hexachlorobutadiene	1	0.0045	U	UJ
98-82-8	Isopropylbenzene	1	0.0045	U	UJ
79-20-9	Methyl acetate	1	0.0045	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0045	U	UJ
108-87-2	Methylcyclohexane	1	0.0027	J	J
75-09-2	Methylene chloride	1	0.010		J
104-51-8	n-Butylbenzene	1	0.0045	U	UJ
103-65-1	n-Propylbenzene	1	0.0045	U	UJ
95-47-6	o-Xylene	1	0.0045	U	UJ
179601-23-1	p- & m- Xylenes	1	0.0076	J	J
99-87-6	p-Isopropyltoluene	1	0.0045	U	UJ
135-98-8	sec-Butylbenzene	1	0.0045	U	
100-42-5	Styrene	1	0.0045	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0045	U	
98-06-6	tert-Butylbenzene	1	0.0045	U	
127-18-4	Tetrachloroethylene	1	0.0045	U	
108-88-3	Toluene	1	0.0045	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0045	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0045	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0045	U	
79-01-6	Trichloroethylene	1	0.0045	U	
75-69-4	Trichlorofluoromethane	1	0.0045	U	
75-01-4	Vinyl Chloride	1	0.0045	U	
1330-20-7	Xylenes, Total	1	0.0076	J	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	65.8	132	77 - 125	*
SURR: Toluene-d8	50.0	42.8	85.5	85 - 120	
SURR: p-Bromofluorobenzene	50.0	44.5	89.0	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	67187	5.563	236560	5.562	*
ISTD: Chlorobenzene-d5	294233	8.582	1003277	8.585	*
ISTD: 1,2-Dichlorobenzene-d4	152181	11.553	456316	11.553	*

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID: V5435284.D

Sampled: 11/06/23 10:45 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 20:11

Solids: 90.78 Preparation: EPA 5030B Initial/Final: 5.07 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0054	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0054	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0054	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0054	U	
79-00-5	1,1,2-Trichloroethane	1	0.0054	U	
75-34-3	1,1-Dichloroethane	1	0.0054	U	
75-35-4	1,1-Dichloroethylene	1	0.0054	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0054	U	
96-18-4	1,2,3-Trichloropropane	1	0.0054	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0054	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.11		J
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0054	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0054	U	
95-50-1	1,2-Dichlorobenzene	1	0.0054	U	
107-06-2	1,2-Dichloroethane	1	0.0054	U	
78-87-5	1,2-Dichloropropane	1	0.0054	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.037		J
541-73-1	1,3-Dichlorobenzene	1	0.0054	U	UJ
106-46-7	1,4-Dichlorobenzene	1	0.0054	U	UJ
123-91-1	1,4-Dioxane	1	~~0.11~~	U	R
78-93-3	2-Butanone	1	0.0054	U	UJ
591-78-6	2-Hexanone	1	0.0054	U	
108-10-1	4-Methyl-2-pentanone	1	0.0054	U	
67-64-1	Acetone	1	0.011	U	
107-02-8	Acrolein	1	0.011	U	
107-13-1	Acrylonitrile	1	0.0054	U	
71-43-2	Benzene	1	0.0077		J
74-97-5	Bromochloromethane	1	0.0054	U	UJ
75-27-4	Bromodichloromethane	1	0.0054	U	
75-25-2	Bromoform	1	0.0054	U	
74-83-9	Bromomethane	1	0.0054	U	
75-15-0	Carbon disulfide	1	0.0054	U	
56-23-5	Carbon tetrachloride	1	0.0054	U	
108-90-7	Chlorobenzene	1	0.0054	U	
75-00-3	Chloroethane	1	0.0054	U	
67-66-3	Chloroform	1	0.0054	U	
74-87-3	Chloromethane	1	0.0054	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0054	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0054	U	
110-82-7	Cyclohexane	1	0.083		J

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID: V5435284.D

Sampled: 11/06/23 10:45 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 20:11

Solids: 90.78 Preparation: EPA 5030B Initial/Final: 5.07 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0054	U	UJ
74-95-3	Dibromomethane	1	0.0054	U	UJ
75-71-8	Dichlorodifluoromethane	1	0.0054	U	UJ
100-41-4	Ethyl Benzene	1	0.15		J
87-68-3	Hexachlorobutadiene	1	0.0054	U	UJ
98-82-8	Isopropylbenzene	1	0.020		J
79-20-9	Methyl acetate	1	0.0054	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0054	U	UJ
108-87-2	Methylcyclohexane	1	0.21		J
75-09-2	Methylene chloride	1	0.011	U	UJ
104-51-8	n-Butylbenzene	1	0.011		J
103-65-1	n-Propylbenzene	1	0.062		
95-47-6	o-Xylene	1	0.018		
179601-23-1	p- & m- Xylenes	1	0.23		
99-87-6	p-Isopropyltoluene	1	0.0030	J	
135-98-8	sec-Butylbenzene	1	0.0048	J	
100-42-5	Styrene	1	0.0054	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	1	0.0054	U	UJ
98-06-6	tert-Butylbenzene	1	0.0054	U	UJ
127-18-4	Tetrachloroethylene	1	0.0054	U	UJ
108-88-3	Toluene	1	0.011		J
156-60-5	trans-1,2-Dichloroethylene	1	0.0054	U	UJ
10061-02-6	trans-1,3-Dichloropropylene	1	0.0054	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0054	U	
79-01-6	Trichloroethylene	1	0.0054	U	
75-69-4	Trichlorofluoromethane	1	0.0054	U	
75-01-4	Vinyl Chloride	1	0.0054	U	
1330-20-7	Xylenes, Total	1	0.24		J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	27.8	55.6	77 - 125	*
SURR: Toluene-d8	50.0	49.0	97.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	53.8	108	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	442586	5.566	232821	5.562	
ISTD: Chlorobenzene-d5	980117	8.585	946279	8.585	
ISTD: 1,2-Dichlorobenzene-d4	398294	11.553	421718	11.553	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID: V5435285.D

Sampled: 11/06/23 10:50 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 20:38

Solids: 83.00 Preparation: EPA 5030B Initial/Final: 5.12 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0059	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0059	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0059	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0059	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0059	U	
75-34-3	1,1-Dichloroethane	1	0.0059	U	
75-35-4	1,1-Dichloroethylene	1	0.0059	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.0059	U	
96-18-4	1,2,3-Trichloropropane	1	0.0059	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0059	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.028		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0059	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0059	U	
95-50-1	1,2-Dichlorobenzene	1	0.0059	U	
107-06-2	1,2-Dichloroethane	1	0.0059	U	
78-87-5	1,2-Dichloropropane	1	0.0059	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.025		
541-73-1	1,3-Dichlorobenzene	1	0.0059	U	
106-46-7	1,4-Dichlorobenzene	1	0.0059	U	
123-91-1	1,4-Dioxane	1	~~0.12~~	U	R
78-93-3	2-Butanone	1	0.0059	U	UJ
591-78-6	2-Hexanone	1	0.0059	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0059	U	UJ
67-64-1	Acetone	1	0.021		J
107-02-8	Acrolein	1	0.012	U	UJ
107-13-1	Acrylonitrile	1	0.0059	U	
71-43-2	Benzene	1	0.0059	U	
74-97-5	Bromochloromethane	1	0.0059	U	
75-27-4	Bromodichloromethane	1	0.0059	U	
75-25-2	Bromoform	1	0.0059	U	UJ
74-83-9	Bromomethane	1	0.0059	U	UJ
75-15-0	Carbon disulfide	1	0.0059	U	UJ
56-23-5	Carbon tetrachloride	1	0.0059	U	UJ
108-90-7	Chlorobenzene	1	0.0059	U	
75-00-3	Chloroethane	1	0.0059	U	UJ
67-66-3	Chloroform	1	0.0059	U	UJ
74-87-3	Chloromethane	1	0.0059	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0059	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0059	U	
110-82-7	Cyclohexane	1	0.015		

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID: V5435285.D

Sampled: 11/06/23 10:50 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 20:38

Solids: 83.00 Preparation: EPA 5030B Initial/Final: 5.12 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0059	U	UJ
74-95-3	Dibromomethane	1	0.0059	U	
75-71-8	Dichlorodifluoromethane	1	0.0059	U	
100-41-4	Ethyl Benzene	1	0.022		
87-68-3	Hexachlorobutadiene	1	0.0059	U	
98-82-8	Isopropylbenzene	1	0.0043	J	
79-20-9	Methyl acetate	1	0.0059	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0059	U	UJ
108-87-2	Methylcyclohexane	1	0.060		
75-09-2	Methylene chloride	1	0.012	U	
104-51-8	n-Butylbenzene	1	0.0059	U	
103-65-1	n-Propylbenzene	1	0.0076		
95-47-6	o-Xylene	1	0.0089		
179601-23-1	p- & m- Xylenes	1	0.036		
99-87-6	p-Isopropyltoluene	1	0.0059	U	
135-98-8	sec-Butylbenzene	1	0.0059	U	
100-42-5	Styrene	1	0.0059	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0059	U	UJ
98-06-6	tert-Butylbenzene	1	0.0059	U	
127-18-4	Tetrachloroethylene	1	0.0059	U	UJ
108-88-3	Toluene	1	0.0059	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0059	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0059	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0059	U	
79-01-6	Trichloroethylene	1	0.0059	U	
75-69-4	Trichlorofluoromethane	1	0.0059	U	
75-01-4	Vinyl Chloride	1	0.0059	U	
1330-20-7	Xylenes, Total	1	0.044		

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.4	94.9	77 - 125	
SURR: Toluene-d8	50.0	47.0	93.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.3	105	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	266270	5.563	232821	5.562	
ISTD: Chlorobenzene-d5	1024330	8.585	946279	8.585	
ISTD: 1,2-Dichlorobenzene-d4	447233	11.553	421718	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID: V5435295.D

Sampled: 11/06/23 11:00 Prepared: 11/12/23 08:00 Analyzed: 11/13/23 01:13

Solids: 75.95 Preparation: EPA 5030B Initial/Final: 5.92 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.56	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.56	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.56	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.56	U	
79-00-5	1,1,2-Trichloroethane	100	0.56	U	
75-34-3	1,1-Dichloroethane	100	0.56	U	
75-35-4	1,1-Dichloroethylene	100	0.56	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.56	U	
96-18-4	1,2,3-Trichloropropane	100	0.56	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.56	U	
95-63-6	1,2,4-Trimethylbenzene	100	2.4	D	J
96-12-8	1,2-Dibromo-3-chloropropane	100	0.56	U	UJ
106-93-4	1,2-Dibromoethane	100	0.56	U	
95-50-1	1,2-Dichlorobenzene	100	0.56	U	
107-06-2	1,2-Dichloroethane	100	0.56	U	
78-87-5	1,2-Dichloropropane	100	0.56	U	
108-67-8	1,3,5-Trimethylbenzene	100	0.56	U	
541-73-1	1,3-Dichlorobenzene	100	0.56	U	
106-46-7	1,4-Dichlorobenzene	100	0.56	U	
123-91-1	1,4-Dioxane	100	~~11~~	U	R
78-93-3	2-Butanone	100	0.56	U	UJ
591-78-6	2-Hexanone	100	0.56	U	
108-10-1	4-Methyl-2-pentanone	100	0.56	U	
67-64-1	Acetone	100	1.1	U	
107-02-8	Acrolein	100	1.1	U	
107-13-1	Acrylonitrile	100	0.56	U	
71-43-2	Benzene	100	0.33	JD	J
74-97-5	Bromochloromethane	100	0.56	U	UJ
75-27-4	Bromodichloromethane	100	0.56	U	
75-25-2	Bromoform	100	0.56	U	
74-83-9	Bromomethane	100	0.56	U	
75-15-0	Carbon disulfide	100	0.56	U	
56-23-5	Carbon tetrachloride	100	0.56	U	
108-90-7	Chlorobenzene	100	0.56	U	
75-00-3	Chloroethane	100	0.56	U	
67-66-3	Chloroform	100	0.56	U	
74-87-3	Chloromethane	100	0.56	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.56	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.56	U	
110-82-7	Cyclohexane	100	5.3	D	J

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID: V5435295.D

Sampled: 11/06/23 11:00 Prepared: 11/12/23 08:00 Analyzed: 11/13/23 01:13

Solids: 75.95 Preparation: EPA 5030B Initial/Final: 5.92 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.56	U	UJ
74-95-3	Dibromomethane	100	0.56	U	UJ
75-71-8	Dichlorodifluoromethane	100	0.56	U	UJ
100-41-4	Ethyl Benzene	100	3.6	D	J
87-68-3	Hexachlorobutadiene	100	0.56	U	UJ
98-82-8	Isopropylbenzene	100	4.7	D	UJ
79-20-9	Methyl acetate	100	0.56	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.56	U	UJ
75-09-2	Methylene chloride	100	1.1	U	UJ
104-51-8	n-Butylbenzene	100	8.9	D	J
103-65-1	n-Propylbenzene	100	16	D	J
95-47-6	o-Xylene	100	0.56	U	UJ
179601-23-1	p- & m- Xylenes	100	4.2	D	J
99-87-6	p-Isopropyltoluene	100	3.0	D	J
135-98-8	sec-Butylbenzene	100	3.6	D	J
100-42-5	Styrene	100	0.56	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	0.56	U	
98-06-6	tert-Butylbenzene	100	0.56	U	
127-18-4	Tetrachloroethylene	100	0.56	U	
108-88-3	Toluene	100	0.56	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.56	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.56	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.56	U	
79-01-6	Trichloroethylene	100	0.56	U	
75-69-4	Trichlorofluoromethane	100	0.56	U	
75-01-4	Vinyl Chloride	100	0.56	U	
1330-20-7	Xylenes, Total	100	4.2	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	16.5	32.9	77 - 125	D
SURR: Toluene-d8	50.0	57.9	116	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	62.1	124	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	630587	5.566	232821	5.562	*
ISTD: Chlorobenzene-d5	893193	8.585	946279	8.585	
ISTD: 1,2-Dichlorobenzene-d4	380314	11.552	421718	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (14-16ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-07RE1	File ID:	V5435317.D
Sampled:	11/06/23 11:00	Prepared:	11/13/23 09:00	Analyzed:	11/13/23 17:04
Solids:	75.95	Preparation:	EPA 5035A	Initial/Final:	5.92 g / 5 ml
Batch:	BK30784	Sequence:	S3K1416	Calibration:	SK30017
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
108-87-2	Methylcyclohexane	500	100	D

J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	34.5	69.0	77 - 125	D
SURR: Toluene-d8	50.0	47.7	95.4	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	52.2	104	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	337936	5.562	236560	5.562	
ISTD: Chlorobenzene-d5	1037692	8.585	1003277	8.585	
ISTD: 1,2-Dichlorobenzene-d4	454769	11.553	456316	11.553	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID: V5435286.D

Sampled: 11/06/23 11:10 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 21:06

Solids: 79.97 Preparation: EPA 5030B Initial/Final: 6.68 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0047	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0047	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0047	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0047	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0047	U	
75-34-3	1,1-Dichloroethane	1	0.0047	U	
75-35-4	1,1-Dichloroethylene	1	0.0047	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0047	U	
96-18-4	1,2,3-Trichloropropane	1	0.0047	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0047	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0084		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0047	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0047	U	
95-50-1	1,2-Dichlorobenzene	1	0.0047	U	
107-06-2	1,2-Dichloroethane	1	0.0047	U	
78-87-5	1,2-Dichloropropane	1	0.0047	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0025	J	
541-73-1	1,3-Dichlorobenzene	1	0.0047	U	
106-46-7	1,4-Dichlorobenzene	1	0.0047	U	
123-91-1	1,4-Dioxane	1	~~0.094~~	U	R
78-93-3	2-Butanone	1	0.0047	U	UJ
591-78-6	2-Hexanone	1	0.0047	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0047	U	UJ
67-64-1	Acetone	1	0.011		J
107-02-8	Acrolein	1	0.0094	U	UJ
107-13-1	Acrylonitrile	1	0.0047	U	
71-43-2	Benzene	1	0.0035	J	
74-97-5	Bromochloromethane	1	0.0047	U	
75-27-4	Bromodichloromethane	1	0.0047	U	UJ
75-25-2	Bromoform	1	0.0047	U	UJ
74-83-9	Bromomethane	1	0.0047	U	UJ
75-15-0	Carbon disulfide	1	0.0047	U	UJ
56-23-5	Carbon tetrachloride	1	0.0047	U	UJ
108-90-7	Chlorobenzene	1	0.0047	U	
75-00-3	Chloroethane	1	0.0047	U	UJ
67-66-3	Chloroform	1	0.0047	U	
74-87-3	Chloromethane	1	0.0047	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0047	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0047	U	
110-82-7	Cyclohexane	1	0.0076		

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID: V5435286.D

Sampled: 11/06/23 11:10 Prepared: 11/12/23 08:00 Analyzed: 11/12/23 21:06

Solids: 79.97 Preparation: EPA 5030B Initial/Final: 6.68 mL / 5 mL

Batch: BK30769 Sequence: S3K1315 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0047	U	UJ
74-95-3	Dibromomethane	1	0.0047	U	
75-71-8	Dichlorodifluoromethane	1	0.0047	U	
100-41-4	Ethyl Benzene	1	0.011		
87-68-3	Hexachlorobutadiene	1	0.0047	U	
98-82-8	Isopropylbenzene	1	0.0047	U	
79-20-9	Methyl acetate	1	0.0047	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0047	U	UJ
108-87-2	Methylcyclohexane	1	0.020		
75-09-2	Methylene chloride	1	0.0094	U	
104-51-8	n-Butylbenzene	1	0.0047	U	
103-65-1	n-Propylbenzene	1	0.0047	U	
95-47-6	o-Xylene	1	0.0047	U	
179601-23-1	p- & m- Xylenes	1	0.0095		
99-87-6	p-Isopropyltoluene	1	0.0047	U	
135-98-8	sec-Butylbenzene	1	0.0047	U	
100-42-5	Styrene	1	0.0047	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0047	U	UJ
98-06-6	tert-Butylbenzene	1	0.0047	U	
127-18-4	Tetrachloroethylene	1	0.0047	U	UJ
108-88-3	Toluene	1	0.0047	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0047	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0047	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0047	U	
79-01-6	Trichloroethylene	1	0.0047	U	
75-69-4	Trichlorofluoromethane	1	0.0047	U	
75-01-4	Vinyl Chloride	1	0.0047	U	
1330-20-7	Xylenes, Total	1	0.0095	J	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	39.0	77.9	77 - 125	
SURR: Toluene-d8	50.0	45.8	91.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	49.2	98.3	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	259389	5.563	232821	5.562	
ISTD: Chlorobenzene-d5	808875	8.585	946279	8.585	
ISTD: 1,2-Dichlorobenzene-d4	364157	11.553	421718	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank 11-06-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Water Laboratory ID: 23K0580-09 File ID: V841270.D

Sampled: 11/06/23 15:00 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 12:32

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30810 Sequence: S3K1413 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank 11-06-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Water Laboratory ID: 23K0580-09 File ID: V841270.D

Sampled: 11/06/23 15:00 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 12:32

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30810 Sequence: S3K1413 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.8	108	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	123521	5.791	143826	5.791	
ISTD: Chlorobenzene-d5	494831	8.812	558710	8.817	
ISTD: 1,2-Dichlorobenzene-d4	193851	11.806	246618	11.806	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: V5435365.D

Sampled: 11/06/23 13:15 Prepared: 11/14/23 14:15 Analyzed: 11/14/23 16:07

Solids: 90.97 Preparation: EPA 5035A Initial/Final: 4.22 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0065	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0065	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0065	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0065	U	
79-00-5	1,1,2-Trichloroethane	1	0.0065	U	
75-34-3	1,1-Dichloroethane	1	0.0065	U	
75-35-4	1,1-Dichloroethylene	1	0.0065	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0065	U	
96-18-4	1,2,3-Trichloropropane	1	0.0065	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0065	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.15		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0065	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0065	U	
95-50-1	1,2-Dichlorobenzene	1	0.0065	U	
107-06-2	1,2-Dichloroethane	1	0.0065	U	
78-87-5	1,2-Dichloropropane	1	0.0065	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.052		
541-73-1	1,3-Dichlorobenzene	1	0.0065	U	
106-46-7	1,4-Dichlorobenzene	1	0.0065	U	
123-91-1	1,4-Dioxane	1	~~0.13~~	U	R
78-93-3	2-Butanone	1	0.0065	U	UJ
591-78-6	2-Hexanone	1	0.0065	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0065	U	UJ
67-64-1	Acetone	1	0.017		J
107-02-8	Acrolein	1	0.013	U	
107-13-1	Acrylonitrile	1	0.0065	U	
71-43-2	Benzene	1	0.0055	J	
74-97-5	Bromochloromethane	1	0.0065	U	
75-27-4	Bromodichloromethane	1	0.0065	U	
75-25-2	Bromoform	1	0.0065	U	UJ
74-83-9	Bromomethane	1	0.0065	U	UJ
75-15-0	Carbon disulfide	1	0.0065	U	UJ
56-23-5	Carbon tetrachloride	1	0.0065	U	UJ
108-90-7	Chlorobenzene	1	0.0065	U	
75-00-3	Chloroethane	1	0.0065	U	UJ
67-66-3	Chloroform	1	0.0065	U	
74-87-3	Chloromethane	1	0.0065	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0065	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0065	U	UJ
110-82-7	Cyclohexane	1	0.063		

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: V5435365.D

Sampled: 11/06/23 13:15 Prepared: 11/14/23 14:15 Analyzed: 11/14/23 16:07

Solids: 90.97 Preparation: EPA 5035A Initial/Final: 4.22 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0065	U	
74-95-3	Dibromomethane	1	0.0065	U	
75-71-8	Dichlorodifluoromethane	1	0.0065	U	
100-41-4	Ethyl Benzene	1	0.15		
87-68-3	Hexachlorobutadiene	1	0.0065	U	
98-82-8	Isopropylbenzene	1	0.022		
79-20-9	Methyl acetate	1	0.0065	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0065	U	
108-87-2	Methylcyclohexane	1	0.14		
75-09-2	Methylene chloride	1	0.013	U	
104-51-8	n-Butylbenzene	1	0.013		
103-65-1	n-Propylbenzene	1	0.065		
95-47-6	o-Xylene	1	0.022		
179601-23-1	p- & m- Xylenes	1	0.23		
99-87-6	p-Isopropyltoluene	1	0.0037	J	
135-98-8	sec-Butylbenzene	1	0.0055	J	
100-42-5	Styrene	1	0.0065	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0065	U	UJ
98-06-6	tert-Butylbenzene	1	0.0065	U	
127-18-4	Tetrachloroethylene	1	0.0065	U	UJ
108-88-3	Toluene	1	0.010		
156-60-5	trans-1,2-Dichloroethylene	1	0.0065	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0065	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0065	U	
79-01-6	Trichloroethylene	1	0.0065	U	
75-69-4	Trichlorofluoromethane	1	0.0065	U	
75-01-4	Vinyl Chloride	1	0.0065	U	
1330-20-7	Xylenes, Total	1	0.25		

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	32.0	63.9	77 - 125	*
SURR: Toluene-d8	50.0	46.7	93.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	52.1	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	399417	5.566	227820	5.562	
ISTD: Chlorobenzene-d5	1133848	8.585	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	477703	11.553	453671	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-12 | File ID: V5435307.D

Sampled: 11/06/23 14:00 | Prepared: 11/13/23 09:00 | Analyzed: 11/13/23 12:29

Solids: 79.53 | Preparation: EPA 5035A | Initial/Final: 4.52 g / 5 ml

Batch: BK30784 | Sequence: S3K1416 | Calibration: SK30017 | Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0070	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0070	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0070	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0070	U	
79-00-5	1,1,2-Trichloroethane	1	0.0070	U	
75-34-3	1,1-Dichloroethane	1	0.0070	U	
75-35-4	1,1-Dichloroethylene	1	0.0070	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0070	U	
96-18-4	1,2,3-Trichloropropane	1	0.0070	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0070	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50		J
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0070	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0070	U	
95-50-1	1,2-Dichlorobenzene	1	0.0070	U	
107-06-2	1,2-Dichloroethane	1	0.0070	U	
78-87-5	1,2-Dichloropropane	1	0.0070	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.13		J
541-73-1	1,3-Dichlorobenzene	1	0.0070	U	UJ
106-46-7	1,4-Dichlorobenzene	1	0.0070	U	UJ
123-91-1	1,4-Dioxane	1	0.14	U	R
78-93-3	2-Butanone	1	0.061		J
591-78-6	2-Hexanone	1	0.0070	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0070	U	UJ
67-64-1	Acetone	1	0.31		J
107-02-8	Acrolein	1	0.014	U	UJ
107-13-1	Acrylonitrile	1	0.0070	U	
71-43-2	Benzene	1	0.0070	U	
74-97-5	Bromochloromethane	1	0.0070	U	
75-27-4	Bromodichloromethane	1	0.0070	U	
75-25-2	Bromoform	1	0.0070	U	
74-83-9	Bromomethane	1	0.0070	U	
75-15-0	Carbon disulfide	1	0.0070	U	
56-23-5	Carbon tetrachloride	1	0.0070	U	
108-90-7	Chlorobenzene	1	0.0070	U	
75-00-3	Chloroethane	1	0.0070	U	
67-66-3	Chloroform	1	0.0070	U	
74-87-3	Chloromethane	1	0.0070	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0070	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0070	U	
110-82-7	Cyclohexane	1	0.0070	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-12 | File ID: V5435307.D

Sampled: 11/06/23 14:00 | Prepared: 11/13/23 09:00 | Analyzed: 11/13/23 12:29

Solids: 79.53 | Preparation: EPA 5035A | Initial/Final: 4.52 g / 5 ml

Batch: BK30784 | Sequence: S3K1416 | Calibration: SK30017 | Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0070	U	UJ
74-95-3	Dibromomethane	1	0.0070	U	UJ
75-71-8	Dichlorodifluoromethane	1	0.0070	U	UJ
100-41-4	Ethyl Benzene	1	0.039		J
87-68-3	Hexachlorobutadiene	1	0.0070	U	UJ
98-82-8	Isopropylbenzene	1	0.020		J
79-20-9	Methyl acetate	1	0.0070	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0070	U	UJ
108-87-2	Methylcyclohexane	1	0.034		J
75-09-2	Methylene chloride	1	0.014	U	UJ
104-51-8	n-Butylbenzene	1	0.033		J
103-65-1	n-Propylbenzene	1	0.11		
95-47-6	o-Xylene	1	0.025		
179601-23-1	p- & m- Xylenes	1	0.11		
99-87-6	p-Isopropyltoluene	1	0.0071		
135-98-8	sec-Butylbenzene	1	0.020		
100-42-5	Styrene	1	0.0070	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	1	0.0070	U	
98-06-6	tert-Butylbenzene	1	0.0070	U	
127-18-4	Tetrachloroethylene	1	0.0070	U	
108-88-3	Toluene	1	0.0070	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0070	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0070	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0070	U	
79-01-6	Trichloroethylene	1	0.0070	U	
75-69-4	Trichlorofluoromethane	1	0.0070	U	
75-01-4	Vinyl Chloride	1	0.0070	U	
1330-20-7	Xylenes, Total	1	0.14		J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	62.4	125	77 - 125	
SURR: Toluene-d8	50.0	43.4	86.9	85 - 120	
SURR: p-Bromofluorobenzene	50.0	44.7	89.5	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	34204	5.566	236560	5.562	*
ISTD: Chlorobenzene-d5	131815	8.585	1003277	8.585	*
ISTD: 1,2-Dichlorobenzene-d4	69461	11.553	456316	11.553	*

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID: V5435308.D

Sampled: 11/06/23 14:20 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 12:57

Solids: 80.33 Preparation: EPA 5035A Initial/Final: 4.62 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0067	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0067	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0067	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0067	U	
79-00-5	1,1,2-Trichloroethane	1	0.0067	U	
75-34-3	1,1-Dichloroethane	1	0.0067	U	
75-35-4	1,1-Dichloroethylene	1	0.0067	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0067	U	
96-18-4	1,2,3-Trichloropropane	1	0.0067	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0067	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.92	E	J
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0067	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0067	U	
95-50-1	1,2-Dichlorobenzene	1	0.0067	U	
107-06-2	1,2-Dichloroethane	1	0.0067	U	
78-87-5	1,2-Dichloropropane	1	0.0067	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.34		J
541-73-1	1,3-Dichlorobenzene	1	0.0067	U	UJ
106-46-7	1,4-Dichlorobenzene	1	0.0067	U	UJ
123-91-1	1,4-Dioxane	1	~~0.13~~	U	R
78-93-3	2-Butanone	1	0.0067	U	UJ
591-78-6	2-Hexanone	1	0.0067	U	
108-10-1	4-Methyl-2-pentanone	1	0.0067	U	
67-64-1	Acetone	1	0.013	U	
107-02-8	Acrolein	1	0.013	U	
107-13-1	Acrylonitrile	1	0.0067	U	
71-43-2	Benzene	1	0.0072		J
74-97-5	Bromochloromethane	1	0.0067	U	UJ
75-27-4	Bromodichloromethane	1	0.0067	U	
75-25-2	Bromoform	1	0.0067	U	
74-83-9	Bromomethane	1	0.0067	U	
75-15-0	Carbon disulfide	1	0.0067	U	
56-23-5	Carbon tetrachloride	1	0.0067	U	
108-90-7	Chlorobenzene	1	0.0067	U	
75-00-3	Chloroethane	1	0.0067	U	
67-66-3	Chloroform	1	0.0067	U	
74-87-3	Chloromethane	1	0.0067	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0067	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0067	U	
110-82-7	Cyclohexane	1	0.043		J

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID: V5435308.D

Sampled: 11/06/23 14:20 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 12:57

Solids: 80.33 Preparation: EPA 5035A Initial/Final: 4.62 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0067	U	UJ
74-95-3	Dibromomethane	1	0.0067	U	UJ
75-71-8	Dichlorodifluoromethane	1	0.0067	U	UJ
100-41-4	Ethyl Benzene	1	0.39		J
87-68-3	Hexachlorobutadiene	1	0.0067	U	UJ
98-82-8	Isopropylbenzene	1	0.20		J
79-20-9	Methyl acetate	1	0.0067	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0067	U	UJ
108-87-2	Methylcyclohexane	1	0.54	E	J
75-09-2	Methylene chloride	1	0.013	U	UJ
104-51-8	n-Butylbenzene	1	0.27		J
103-65-1	n-Propylbenzene	1	0.45		
95-47-6	o-Xylene	1	0.066		
179601-23-1	p- & m- Xylenes	1	0.66		
99-87-6	p-Isopropyltoluene	1	0.036		
135-98-8	sec-Butylbenzene	1	0.11		
100-42-5	Styrene	1	0.0067	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	1	0.0067	U	
98-06-6	tert-Butylbenzene	1	0.0067	U	
127-18-4	Tetrachloroethylene	1	0.0067	U	
108-88-3	Toluene	1	0.0067	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0067	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0067	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0067	U	
79-01-6	Trichloroethylene	1	0.0067	U	
75-69-4	Trichlorofluoromethane	1	0.0067	U	
75-01-4	Vinyl Chloride	1	0.0067	U	
1330-20-7	Xylenes, Total	1	0.72		J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	11.2	22.5	77 - 125	*
SURR: Toluene-d8	50.0	50.2	100	85 - 120	
SURR: p-Bromofluorobenzene	50.0	59.5	119	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	1121338	5.572	236560	5.562	*
ISTD: Chlorobenzene-d5	1073388	8.588	1003277	8.585	
ISTD: 1,2-Dichlorobenzene-d4	442743	11.556	456316	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13RE1	File ID:	V5435367.D
Sampled:	11/06/23 14:20	Prepared:	11/14/23 09:00	Analyzed:	11/14/23 17:02
Solids:	80.33	Preparation:	EPA 5035A	Initial/Final:	3.14 g / 5 ml
Batch:	BK30861	Sequence:	S3K1518	Calibration:	SK30017
Instrument:	VOA No. 5				

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	67.3	135	77 - 125	D
SURR: Toluene-d8	50.0	42.0	84.0	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	45.2	90.3	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	72325	5.566	227820	5.562	*
ISTD: Chlorobenzene-d5	334839	8.585	979379	8.585	*
ISTD: 1,2-Dichlorobenzene-d4	172557	11.553	453671	11.553	*

* Values outside of QC limits

MKP 2/19/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID: V5435366.D

Sampled: 11/06/23 14:30 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 16:34

Solids: 77.29 Preparation: EPA 5035A Initial/Final: 7.39 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0044	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0044	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0044	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0044	U	
79-00-5	1,1,2-Trichloroethane	1	0.0044	U	
75-34-3	1,1-Dichloroethane	1	0.0044	U	
75-35-4	1,1-Dichloroethylene	1	0.0044	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0044	U	
96-18-4	1,2,3-Trichloropropane	1	0.0044	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0044	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0057		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0044	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0044	U	
95-50-1	1,2-Dichlorobenzene	1	0.0044	U	
107-06-2	1,2-Dichloroethane	1	0.0044	U	
78-87-5	1,2-Dichloropropane	1	0.0044	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0044	U	
541-73-1	1,3-Dichlorobenzene	1	0.0044	U	
106-46-7	1,4-Dichlorobenzene	1	0.0044	U	
123-91-1	1,4-Dioxane	1	~~0.088~~	U	R
78-93-3	2-Butanone	1	0.0044	U	UJ
591-78-6	2-Hexanone	1	0.0044	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0044	U	UJ
67-64-1	Acetone	1	0.010		J
107-02-8	Acrolein	1	0.0088	U	
107-13-1	Acrylonitrile	1	0.0044	U	
71-43-2	Benzene	1	0.0044	U	
74-97-5	Bromochloromethane	1	0.0044	U	
75-27-4	Bromodichloromethane	1	0.0044	U	
75-25-2	Bromoform	1	0.0044	U	UJ
74-83-9	Bromomethane	1	0.0044	U	UJ
75-15-0	Carbon disulfide	1	0.0044	U	UJ
56-23-5	Carbon tetrachloride	1	0.0044	U	UJ
108-90-7	Chlorobenzene	1	0.0044	U	
75-00-3	Chloroethane	1	0.0044	U	UJ
67-66-3	Chloroform	1	0.0044	U	
74-87-3	Chloromethane	1	0.0044	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0044	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0044	U	UJ
110-82-7	Cyclohexane	1	0.0061		

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID: V5435366.D

Sampled: 11/06/23 14:30 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 16:34

Solids: 77.29 Preparation: EPA 5035A Initial/Final: 7.39 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0044	U	
74-95-3	Dibromomethane	1	0.0044	U	
75-71-8	Dichlorodifluoromethane	1	0.0044	U	
100-41-4	Ethyl Benzene	1	0.0043	J	
87-68-3	Hexachlorobutadiene	1	0.0044	U	
98-82-8	Isopropylbenzene	1	0.0044	U	
79-20-9	Methyl acetate	1	0.0044	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0044	U	
108-87-2	Methylcyclohexane	1	0.0051		
75-09-2	Methylene chloride	1	0.0088	U	
104-51-8	n-Butylbenzene	1	0.0044	U	
103-65-1	n-Propylbenzene	1	0.0044	U	
95-47-6	o-Xylene	1	0.0044	U	
179601-23-1	p- & m- Xylenes	1	0.0088	U	
99-87-6	p-Isopropyltoluene	1	0.0044	U	
135-98-8	sec-Butylbenzene	1	0.0044	U	
100-42-5	Styrene	1	0.0044	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0044	U	UJ
98-06-6	tert-Butylbenzene	1	0.0044	U	
127-18-4	Tetrachloroethylene	1	0.0044	U	UJ
108-88-3	Toluene	1	0.0044	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0044	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0044	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0044	U	
79-01-6	Trichloroethylene	1	0.0044	U	
75-69-4	Trichlorofluoromethane	1	0.0044	U	
75-01-4	Vinyl Chloride	1	0.0044	U	
1330-20-7	Xylenes, Total	1	0.013	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	45.4	90.7	77 - 125	
SURR: Toluene-d8	50.0	45.8	91.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.2	102	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	225554	5.566	227820	5.562	
ISTD: Chlorobenzene-d5	957944	8.585	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	409515	11.553	453671	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID: V5435310.D

Sampled: 11/07/23 10:50 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 13:52

Solids: 93.38 Preparation: EPA 5035A Initial/Final: 3.53 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0076	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0076	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0076	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0076	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0076	U	
75-34-3	1,1-Dichloroethane	1	0.0076	U	
75-35-4	1,1-Dichloroethylene	1	0.0076	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.0076	U	
96-18-4	1,2,3-Trichloropropane	1	0.0076	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0076	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0076	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0076	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0076	U	
95-50-1	1,2-Dichlorobenzene	1	0.0076	U	
107-06-2	1,2-Dichloroethane	1	0.0076	U	
78-87-5	1,2-Dichloropropane	1	0.0076	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0076	U	
541-73-1	1,3-Dichlorobenzene	1	0.0076	U	
106-46-7	1,4-Dichlorobenzene	1	0.0076	U	
123-91-1	1,4-Dioxane	1	~~0.15~~	U	R
78-93-3	2-Butanone	1	0.0076	U	UJ
591-78-6	2-Hexanone	1	0.0076	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0076	U	UJ
67-64-1	Acetone	1	0.017		J
107-02-8	Acrolein	1	0.015	U	UJ
107-13-1	Acrylonitrile	1	0.0076	U	
71-43-2	Benzene	1	0.0076	U	
74-97-5	Bromochloromethane	1	0.0076	U	
75-27-4	Bromodichloromethane	1	0.0076	U	UJ
75-25-2	Bromoform	1	0.0076	U	UJ
74-83-9	Bromomethane	1	0.0076	U	UJ
75-15-0	Carbon disulfide	1	0.0076	U	UJ
56-23-5	Carbon tetrachloride	1	0.0076	U	UJ
108-90-7	Chlorobenzene	1	0.0076	U	
75-00-3	Chloroethane	1	0.0076	U	UJ
67-66-3	Chloroform	1	0.0076	U	
74-87-3	Chloromethane	1	0.0076	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0076	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0076	U	
110-82-7	Cyclohexane	1	0.0076	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID: V5435310.D

Sampled: 11/07/23 10:50 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 13:52

Solids: 93.38 Preparation: EPA 5035A Initial/Final: 3.53 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0076	U	UJ
74-95-3	Dibromomethane	1	0.0076	U	
75-71-8	Dichlorodifluoromethane	1	0.0076	U	
100-41-4	Ethyl Benzene	1	0.0076	U	
87-68-3	Hexachlorobutadiene	1	0.0076	U	
98-82-8	Isopropylbenzene	1	0.0076	U	
79-20-9	Methyl acetate	1	0.0076	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0076	U	
108-87-2	Methylcyclohexane	1	0.0076	U	
75-09-2	Methylene chloride	1	0.015	U	
104-51-8	n-Butylbenzene	1	0.0076	U	
103-65-1	n-Propylbenzene	1	0.0076	U	
95-47-6	o-Xylene	1	0.0076	U	
179601-23-1	p- & m- Xylenes	1	0.015	U	
99-87-6	p-Isopropyltoluene	1	0.0076	U	
135-98-8	sec-Butylbenzene	1	0.0076	U	
100-42-5	Styrene	1	0.0076	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0076	U	
98-06-6	tert-Butylbenzene	1	0.0076	U	
127-18-4	Tetrachloroethylene	1	0.0076	U	UJ
108-88-3	Toluene	1	0.0076	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0076	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0076	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0076	U	
79-01-6	Trichloroethylene	1	0.0076	U	
75-69-4	Trichlorofluoromethane	1	0.0076	U	
75-01-4	Vinyl Chloride	1	0.0076	U	
1330-20-7	Xylenes, Total	1	0.023	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.9	104	77 - 125	
SURR: Toluene-d8	50.0	45.6	91.2	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.9	104	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	239966	5.566	236560	5.562	
ISTD: Chlorobenzene-d5	1009787	8.585	1003277	8.585	
ISTD: 1,2-Dichlorobenzene-d4	422787	11.553	456316	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID: V5435311.D

Sampled: 11/07/23 11:15 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 14:19

Solids: 69.30 Preparation: EPA 5035A Initial/Final: 3.76 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0096	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0096	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0096	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0096	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0096	U	
75-34-3	1,1-Dichloroethane	1	0.0096	U	
75-35-4	1,1-Dichloroethylene	1	0.0096	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.0096	U	
96-18-4	1,2,3-Trichloropropane	1	0.0096	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0096	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0096	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0096	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0096	U	
95-50-1	1,2-Dichlorobenzene	1	0.0096	U	
107-06-2	1,2-Dichloroethane	1	0.0096	U	
78-87-5	1,2-Dichloropropane	1	0.0096	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0096	U	
541-73-1	1,3-Dichlorobenzene	1	0.0096	U	
106-46-7	1,4-Dichlorobenzene	1	0.0096	U	
123-91-1	1,4-Dioxane	1	~~0.19~~	U	R
78-93-3	2-Butanone	1	0.0096	U	UJ
591-78-6	2-Hexanone	1	0.0096	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0096	U	UJ
67-64-1	Acetone	1	0.059		J
107-02-8	Acrolein	1	0.019	U	UJ
107-13-1	Acrylonitrile	1	0.0096	U	
71-43-2	Benzene	1	0.0073	J	
74-97-5	Bromochloromethane	1	0.0096	U	
75-27-4	Bromodichloromethane	1	0.0096	U	UJ
75-25-2	Bromoform	1	0.0096	U	UJ
74-83-9	Bromomethane	1	0.0096	U	UJ
75-15-0	Carbon disulfide	1	0.0096	U	UJ
56-23-5	Carbon tetrachloride	1	0.0096	U	UJ
108-90-7	Chlorobenzene	1	0.0096	U	
75-00-3	Chloroethane	1	0.0096	U	UJ
67-66-3	Chloroform	1	0.0096	U	
74-87-3	Chloromethane	1	0.0096	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0096	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0096	U	
110-82-7	Cyclohexane	1	0.0096	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID: V5435311.D

Sampled: 11/07/23 11:15 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 14:19

Solids: 69.30 Preparation: EPA 5035A Initial/Final: 3.76 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0096	U	UJ
74-95-3	Dibromomethane	1	0.0096	U	
75-71-8	Dichlorodifluoromethane	1	0.0096	U	
100-41-4	Ethyl Benzene	1	0.0096	U	
87-68-3	Hexachlorobutadiene	1	0.0096	U	
98-82-8	Isopropylbenzene	1	0.0096	U	
79-20-9	Methyl acetate	1	0.0096	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0096	U	
108-87-2	Methylcyclohexane	1	0.0096	U	
75-09-2	Methylene chloride	1	0.019	U	
104-51-8	n-Butylbenzene	1	0.0096	U	
103-65-1	n-Propylbenzene	1	0.0096	U	
95-47-6	o-Xylene	1	0.0096	U	
179601-23-1	p- & m- Xylenes	1	0.019	U	
99-87-6	p-Isopropyltoluene	1	0.0096	U	
135-98-8	sec-Butylbenzene	1	0.0096	U	
100-42-5	Styrene	1	0.0096	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0096	U	
98-06-6	tert-Butylbenzene	1	0.0096	U	
127-18-4	Tetrachloroethylene	1	0.0096	U	UJ
108-88-3	Toluene	1	0.0096	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0096	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0096	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0096	U	UJ
79-01-6	Trichloroethylene	1	0.0096	U	
75-69-4	Trichlorofluoromethane	1	0.0096	U	
75-01-4	Vinyl Chloride	1	0.0096	U	
1330-20-7	Xylenes, Total	1	0.029	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	54.7	109	77 - 125	
SURR: Toluene-d8	50.0	46.9	93.8	85 - 120	
SURR: p-Bromofluorobenzene	50.0	63.4	127	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	216759	5.563	236560	5.562	
ISTD: Chlorobenzene-d5	935674	8.585	1003277	8.585	
ISTD: 1,2-Dichlorobenzene-d4	417161	11.556	456316	11.553	

* Values outside of QC limits

MKP 2/13/2024

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ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-17 | File ID: V5435368.D

Sampled: 11/07/23 11:30 | Prepared: 11/14/23 09:00 | Analyzed: 11/14/23 17:29

Solids: 65.25 | Preparation: EPA 5035A | Initial/Final: 3.07 g / 5 ml

Batch: BK30861 | Sequence: S3K1518 | Calibration: SK30017 | Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	1.2	U	UJ
71-55-6	1,1,1-Trichloroethane	100	1.2	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	1.2	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	1.2	U	
79-00-5	1,1,2-Trichloroethane	100	1.2	U	
75-34-3	1,1-Dichloroethane	100	1.2	U	
75-35-4	1,1-Dichloroethylene	100	1.2	U	
87-61-6	1,2,3-Trichlorobenzene	100	1.2	U	
96-18-4	1,2,3-Trichloropropane	100	1.2	U	
120-82-1	1,2,4-Trichlorobenzene	100	1.2	U	
96-12-8	1,2-Dibromo-3-chloropropane	100	1.2	U	
106-93-4	1,2-Dibromoethane	100	1.2	U	
95-50-1	1,2-Dichlorobenzene	100	1.2	U	
107-06-2	1,2-Dichloroethane	100	1.2	U	
78-87-5	1,2-Dichloropropane	100	1.2	U	
541-73-1	1,3-Dichlorobenzene	100	1.2	U	
106-46-7	1,4-Dichlorobenzene	100	1.2	U	
123-91-1	1,4-Dioxane	100	~~25~~	U	R
78-93-3	2-Butanone	100	1.2	U	UJ
591-78-6	2-Hexanone	100	1.2	U	
108-10-1	4-Methyl-2-pentanone	100	1.2	U	
67-64-1	Acetone	100	2.5	U	
107-02-8	Acrolein	100	2.5	U	
107-13-1	Acrylonitrile	100	1.2	U	
71-43-2	Benzene	100	0.98	JD	J
74-97-5	Bromochloromethane	100	1.2	U	UJ
75-27-4	Bromodichloromethane	100	1.2	U	
75-25-2	Bromoform	100	1.2	U	
74-83-9	Bromomethane	100	1.2	U	
75-15-0	Carbon disulfide	100	1.2	U	
56-23-5	Carbon tetrachloride	100	1.2	U	
108-90-7	Chlorobenzene	100	1.2	U	
75-00-3	Chloroethane	100	1.2	U	
67-66-3	Chloroform	100	1.2	U	
74-87-3	Chloromethane	100	1.2	U	
156-59-2	cis-1,2-Dichloroethylene	100	1.2	U	
10061-01-5	cis-1,3-Dichloropropylene	100	1.2	U	
110-82-7	Cyclohexane	100	4.6	D	J
124-48-1	Dibromochloromethane	100	1.2	U	UJ
74-95-3	Dibromomethane	100	1.2	U	UJ

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-17 | File ID: V5435368.D

Sampled: 11/07/23 11:30 | Prepared: 11/14/23 09:00 | Analyzed: 11/14/23 17:29

Solids: 65.25 | Preparation: EPA 5035A | Initial/Final: 3.07 g / 5 ml

Batch: BK30861 | Sequence: S3K1518 | Calibration: SK30017 | Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
75-71-8	Dichlorodifluoromethane	100	1.2	U	UJ
100-41-4	Ethyl Benzene	100	98	D	J
87-68-3	Hexachlorobutadiene	100	1.2	U	UJ
98-82-8	Isopropylbenzene	100	16	D	J
79-20-9	Methyl acetate	100	1.2	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	1.2	U	UJ
75-09-2	Methylene chloride	100	2.5	U	UJ
104-51-8	n-Butylbenzene	100	22	D	J
103-65-1	n-Propylbenzene	100	53	D	
95-47-6	o-Xylene	100	17	D	
179601-23-1	p- & m- Xylenes	100	180	D	
99-87-6	p-Isopropyltoluene	100	9.6	D	
135-98-8	sec-Butylbenzene	100	9.3	D	
100-42-5	Styrene	100	1.2	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	1.2	U	
98-06-6	tert-Butylbenzene	100	1.2	U	
127-18-4	Tetrachloroethylene	100	1.2	U	
108-88-3	Toluene	100	10	D	J
156-60-5	trans-1,2-Dichloroethylene	100	1.2	U	UJ
10061-02-6	trans-1,3-Dichloropropylene	100	1.2	U	
110-57-6	trans-1,4-dichloro-2-butene	100	1.2	U	
79-01-6	Trichloroethylene	100	1.2	U	
75-69-4	Trichlorofluoromethane	100	1.2	U	
75-01-4	Vinyl Chloride	100	1.2	U	
1330-20-7	Xylenes, Total	100	200	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	5.31	10.6	77 - 125	D
SURR: Toluene-d8	50.0	52.9	106	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	56.0	112	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	1999743	5.569	227820	5.562	*
ISTD: Chlorobenzene-d5	824924	8.585	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	376073	11.556	453671	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17RE1 File ID: V5435419.D

Sampled: 11/07/23 11:30 Prepared: 11/15/23 09:00 Analyzed: 11/15/23 19:04

Solids: 65.25 Preparation: EPA 5035A Initial/Final: 3.07 g / 5 ml

Batch: BK30956 Sequence: S3K1528 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
95-63-6	1,2,4-Trimethylbenzene	500	420	D	J
108-67-8	1,3,5-Trimethylbenzene	500	120	D	J
108-87-2	Methylcyclohexane	500	270	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	12.6	25.2	77 - 125	D
SURR: Toluene-d8	50.0	47.2	94.5	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	50.9	102	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	823909	5.569	228329	5.562	*
ISTD: Chlorobenzene-d5	1006600	8.585	1015163	8.585	
ISTD: 1,2-Dichlorobenzene-d4	454828	11.552	472142	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID: V5435313.D

Sampled: 11/07/23 11:45 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 15:14

Solids: 78.56 Preparation: EPA 5035A Initial/Final: 4.22 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0075	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0075	U	UJ
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0075	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0075	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0075	U	
75-34-3	1,1-Dichloroethane	1	0.0075	U	UJ
75-35-4	1,1-Dichloroethylene	1	0.0075	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0075	U	
96-18-4	1,2,3-Trichloropropane	1	0.0075	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0075	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0067	J	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0075	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0075	U	
95-50-1	1,2-Dichlorobenzene	1	0.0075	U	
107-06-2	1,2-Dichloroethane	1	0.0075	U	
78-87-5	1,2-Dichloropropane	1	0.0075	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0075	U	
541-73-1	1,3-Dichlorobenzene	1	0.0075	U	
106-46-7	1,4-Dichlorobenzene	1	0.0075	U	
123-91-1	1,4-Dioxane	1	~~0.15~~	U	R
78-93-3	2-Butanone	1	0.0075	U	UJ
591-78-6	2-Hexanone	1	0.0075	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0075	U	UJ
67-64-1	Acetone	1	0.011	J	J
107-02-8	Acrolein	1	0.015	U	UJ
107-13-1	Acrylonitrile	1	0.0075	U	
71-43-2	Benzene	1	0.0075	U	
74-97-5	Bromochloromethane	1	0.0075	U	
75-27-4	Bromodichloromethane	1	0.0075	U	UJ
75-25-2	Bromoform	1	0.0075	U	UJ
74-83-9	Bromomethane	1	0.0075	U	UJ
75-15-0	Carbon disulfide	1	0.0075	U	UJ
56-23-5	Carbon tetrachloride	1	0.0075	U	UJ
108-90-7	Chlorobenzene	1	0.0075	U	
75-00-3	Chloroethane	1	0.0075	U	UJ
67-66-3	Chloroform	1	0.0075	U	
74-87-3	Chloromethane	1	0.0075	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0075	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0075	U	
110-82-7	Cyclohexane	1	0.0075	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID: V5435313.D

Sampled: 11/07/23 11:45 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 15:14

Solids: 78.56 Preparation: EPA 5035A Initial/Final: 4.22 g / 5 ml

Batch: BK30784 Sequence: S3K1416 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0075	U	UJ
74-95-3	Dibromomethane	1	0.0075	U	
75-71-8	Dichlorodifluoromethane	1	0.0075	U	
100-41-4	Ethyl Benzene	1	0.0075	U	
87-68-3	Hexachlorobutadiene	1	0.0075	U	
98-82-8	Isopropylbenzene	1	0.0075	U	
79-20-9	Methyl acetate	1	0.0075	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0075	U	
108-87-2	Methylcyclohexane	1	0.0075	U	
75-09-2	Methylene chloride	1	0.015	U	
104-51-8	n-Butylbenzene	1	0.0075	U	
103-65-1	n-Propylbenzene	1	0.0075	U	
95-47-6	o-Xylene	1	0.0075	U	
179601-23-1	p- & m- Xylenes	1	0.015	U	
99-87-6	p-Isopropyltoluene	1	0.0075	U	
135-98-8	sec-Butylbenzene	1	0.0075	U	
100-42-5	Styrene	1	0.0075	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0075	U	
98-06-6	tert-Butylbenzene	1	0.0075	U	
127-18-4	Tetrachloroethylene	1	0.0075	U	UJ
108-88-3	Toluene	1	0.0075	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0075	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0075	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0075	U	
79-01-6	Trichloroethylene	1	0.0075	U	
75-69-4	Trichlorofluoromethane	1	0.0075	U	
75-01-4	Vinyl Chloride	1	0.0075	U	
1330-20-7	Xylenes, Total	1	0.023	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	45.6	91.2	77 - 125	
SURR: Toluene-d8	50.0	46.0	92.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.5	101	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	250815	5.563	236560	5.562	
ISTD: Chlorobenzene-d5	1070259	8.585	1003277	8.585	
ISTD: 1,2-Dichlorobenzene-d4	461889	11.553	456316	11.553	

* Values outside of QC limits

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank 11-07-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Water Laboratory ID: 23K0580-20 File ID: V841271.D

Sampled: 11/07/23 15:00 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 13:00

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30810 Sequence: S3K1413 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank 11-07-23

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Water Laboratory ID: 23K0580-20 File ID: V841271.D

Sampled: 11/07/23 15:00 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 13:00

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30810 Sequence: S3K1413 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.8	108	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	120053	5.79	143826	5.791	
ISTD: Chlorobenzene-d5	477602	8.817	558710	8.817	
ISTD: 1,2-Dichlorobenzene-d4	187946	11.806	246618	11.806	

* Values outside of QC limits

MKP 2/13/2024

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
CLASS: SVOA
METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (0-2.5ft)	23K0580-01RE1
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (18-22ft)	23K0580-13RE1
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (12.5-15ft)	23K0580-17RE1
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/5/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID: E20017404.D

Sampled: 11/06/23 10:00 Prepared: 11/14/23 15:39 Analyzed: 11/15/23 23:06

Solids: 90.53 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0900	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.180	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0900	U	
95-50-1	1,2-Dichlorobenzene	2	0.0900	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0900	U	
541-73-1	1,3-Dichlorobenzene	2	0.0900	U	
106-46-7	1,4-Dichlorobenzene	2	0.0900	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.180	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0900	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0900	U	
120-83-2	2,4-Dichlorophenol	2	0.0900	U	
105-67-9	2,4-Dimethylphenol	2	0.0900	U	
51-28-5	2,4-Dinitrophenol	2	0.180	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0900	U	
606-20-2	2,6-Dinitrotoluene	2	0.0900	U	
91-58-7	2-Chloronaphthalene	2	0.0900	U	
95-57-8	2-Chlorophenol	2	0.0900	U	
91-57-6	2-Methylnaphthalene	2	0.0698	JD	
95-48-7	2-Methylphenol	2	0.0900	U	UJ
88-74-4	2-Nitroaniline	2	0.180	U	
88-75-5	2-Nitrophenol	2	0.0900	U	
65794-96-9	3- & 4-Methylphenols	2	0.0900	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0489	JD	
99-09-2	3-Nitroaniline	2	0.180	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.180	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0900	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0900	U	
106-47-8	4-Chloroaniline	2	0.0900	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0900	U	
100-01-6	4-Nitroaniline	2	0.180	U	
100-02-7	4-Nitrophenol	2	0.180	U	
83-32-9	Acenaphthene	2	0.0900	U	
208-96-8	Acenaphthylene	2	0.0669	JD	
98-86-2	Acetophenone	2	0.0900	U	
62-53-3	Aniline	2	0.361	U	
120-12-7	Anthracene	2	0.752	D	
1912-24-9	Atrazine	2	0.0900	U	
100-52-7	Benzaldehyde	2	0.0900	U	
92-87-5	Benzidine	2	0.361	U	
56-55-3	Benzo(a)anthracene	2	1.71	D	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID: E20017404.D

Sampled: 11/06/23 10:00 Prepared: 11/14/23 15:39 Analyzed: 11/15/23 23:06

Solids: 90.53 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	1.25	D	
205-99-2	Benzo(b)fluoranthene	2	1.55	D	
191-24-2	Benzo(g,h,i)perylene	2	0.714	D	
207-08-9	Benzo(k)fluoranthene	2	0.725	D	
65-85-0	Benzoic acid	2	0.0900	U	
100-51-6	Benzyl alcohol	2	0.0900	U	
85-68-7	Benzyl butyl phthalate	2	0.0900	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0900	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0900	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0900	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.369	D	
105-60-2	Caprolactam	2	0.180	U	
86-74-8	Carbazole	2	0.127	D	
218-01-9	Chrysene	2	1.65	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.195	D	
132-64-9	Dibenzofuran	2	0.0900	U	
84-66-2	Diethyl phthalate	2	0.0900	U	
131-11-3	Dimethyl phthalate	2	0.0900	U	
84-74-2	Di-n-butyl phthalate	2	0.0900	U	
117-84-0	Di-n-octyl phthalate	2	0.0576	JD	J
122-39-4	Diphenylamine	2	0.180	U	
86-73-7	Fluorene	2	0.0900	U	
118-74-1	Hexachlorobenzene	2	0.0900	U	
87-68-3	Hexachlorobutadiene	2	0.0900	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0900	U	UJ
67-72-1	Hexachloroethane	2	0.0900	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.851	D	
78-59-1	Isophorone	2	0.0900	U	
91-20-3	Naphthalene	2	0.0900	U	
98-95-3	Nitrobenzene	2	0.0900	U	
62-75-9	N-Nitrosodimethylamine	2	0.0900	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0900	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0900	U	
87-86-5	Pentachlorophenol	2	0.0900	U	
85-01-8	Phenanthrene	2	2.05	D	
108-95-2	Phenol	2	0.0900	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	0.776	43.2	20 - 108	
SURR: Phenol-d6	1.80	0.825	45.8	23 - 114	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-01	File ID:	E20017404.D
Sampled:	11/06/23 10:00	Prepared:	11/14/23 15:39	Analyzed:	11/15/23 23:06
Solids:	90.53	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK30935	Sequence:	S3K1618	Calibration:	SK30019	Instrument:	BNA#2

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	0.899	0.363	40.4	22 - 108	
SURR: 2-Fluorobiphenyl	0.899	0.379	42.1	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	0.703	39.1	19 - 110	
SURR: Terphenyl-d14	0.899	0.562	62.5	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	373613	5.64	301750	5.64	
ISTD: Naphthalene-d8	1721580	6.542	1488511	6.542	
ISTD: Acenaphthene-d10	1053332	8.169	765152	8.169	
ISTD: Phenanthrene-d10	1773992	10.319	1206473	10.318	
ISTD: Chrysene-d12	959517	15.88	906136	15.865	
ISTD: Perylene-d12	858217	18.992	986264	18.968	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-01RE1	File ID:	E70351582.D
Sampled:	11/06/23 10:00	Prepared:	11/14/23 15:39	Analyzed:	11/16/23 10:40
Solids:	90.53	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK30935	Sequence:	S3K1641	Calibration:	SK30004
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
206-44-0	Fluoranthene	5	3.72	D
129-00-0	Pyrene	5	3.62	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.80	0.721	40.1	20 - 108	
SURR: Phenol-d6	1.80	0.817	45.4	23 - 114	
SURR: Nitrobenzene-d5	0.899	0.401	44.6	22 - 108	
SURR: 2-Fluorobiphenyl	0.899	0.473	52.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1.80	0.896	49.8	19 - 110	
SURR: Terphenyl-d14	0.899	0.506	56.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	479065	4.777	518410	4.765	
ISTD: Naphthalene-d8	2040312	5.813	2420531	5.801	
ISTD: Acenaphthene-d10	1115631	7.471	1339932	7.447	
ISTD: Phenanthrene-d10	1791816	9.49	2341614	9.466	
ISTD: Chrysene-d12	1327050	14.103	1772376	14.062	
ISTD: Perylene-d12	1466472	17.105	1654281	17.059	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID: E20017405.D

Sampled: 11/06/23 10:15 Prepared: 11/14/23 15:39 Analyzed: 11/15/23 23:44

Solids: 77.74 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.105	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.209	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.105	U	
95-50-1	1,2-Dichlorobenzene	2	0.105	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.105	U	
541-73-1	1,3-Dichlorobenzene	2	0.105	U	
106-46-7	1,4-Dichlorobenzene	2	0.105	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.209	U	
95-95-4	2,4,5-Trichlorophenol	2	0.105	U	
88-06-2	2,4,6-Trichlorophenol	2	0.105	U	
120-83-2	2,4-Dichlorophenol	2	0.105	U	
105-67-9	2,4-Dimethylphenol	2	0.105	U	
51-28-5	2,4-Dinitrophenol	2	0.209	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.105	U	
606-20-2	2,6-Dinitrotoluene	2	0.105	U	
91-58-7	2-Chloronaphthalene	2	0.105	U	
95-57-8	2-Chlorophenol	2	0.105	U	
91-57-6	2-Methylnaphthalene	2	0.245	D	
95-48-7	2-Methylphenol	2	0.105	U	UJ
88-74-4	2-Nitroaniline	2	0.209	U	
88-75-5	2-Nitrophenol	2	0.105	U	
65794-96-9	3- & 4-Methylphenols	2	0.105	U	
91-94-1	3,3-Dichlorobenzidine	2	0.105	U	
99-09-2	3-Nitroaniline	2	0.209	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.209	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.105	U	
59-50-7	4-Chloro-3-methylphenol	2	0.105	U	
106-47-8	4-Chloroaniline	2	0.105	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.105	U	
100-01-6	4-Nitroaniline	2	0.209	U	
100-02-7	4-Nitrophenol	2	0.209	U	
83-32-9	Acenaphthene	2	0.105	U	
208-96-8	Acenaphthylene	2	0.105	U	
98-86-2	Acetophenone	2	0.105	U	
62-53-3	Aniline	2	0.420	U	
120-12-7	Anthracene	2	0.105	U	
1912-24-9	Atrazine	2	0.105	U	
100-52-7	Benzaldehyde	2	0.105	U	
92-87-5	Benzidine	2	0.420	U	
56-55-3	Benzo(a)anthracene	2	0.0788	JD	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID: E20017405.D

Sampled: 11/06/23 10:15 Prepared: 11/14/23 15:39 Analyzed: 11/15/23 23:44

Solids: 77.74 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.0880	JD	
205-99-2	Benzo(b)fluoranthene	2	0.0846	JD	
191-24-2	Benzo(g,h,i)perylene	2	0.0729	JD	
207-08-9	Benzo(k)fluoranthene	2	0.105	U	
65-85-0	Benzoic acid	2	0.105	U	
100-51-6	Benzyl alcohol	2	0.105	U	
85-68-7	Benzyl butyl phthalate	2	0.105	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.105	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.105	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.105	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.105	U	
105-60-2	Caprolactam	2	0.209	U	
86-74-8	Carbazole	2	0.105	U	
218-01-9	Chrysene	2	0.110	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.105	U	
132-64-9	Dibenzofuran	2	0.105	U	
84-66-2	Diethyl phthalate	2	0.105	U	
131-11-3	Dimethyl phthalate	2	0.105	U	
84-74-2	Di-n-butyl phthalate	2	0.105	U	
117-84-0	Di-n-octyl phthalate	2	0.105	U	UJ
122-39-4	Diphenylamine	2	0.209	U	
206-44-0	Fluoranthene	2	0.115	D	
86-73-7	Fluorene	2	0.105	U	
118-74-1	Hexachlorobenzene	2	0.105	U	
87-68-3	Hexachlorobutadiene	2	0.105	U	
77-47-4	Hexachlorocyclopentadiene	2	0.105	U	UJ
67-72-1	Hexachloroethane	2	0.105	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0553	JD	
78-59-1	Isophorone	2	0.105	U	
91-20-3	Naphthalene	2	0.310	D	
98-95-3	Nitrobenzene	2	0.105	U	
62-75-9	N-Nitrosodimethylamine	2	0.105	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.105	U	
86-30-6	N-Nitrosodiphenylamine	2	0.105	U	
87-86-5	Pentachlorophenol	2	0.105	U	
85-01-8	Phenanthrene	2	0.0980	JD	
108-95-2	Phenol	2	0.105	U	
129-00-0	Pyrene	2	0.196	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-02	File ID:	E20017405.D
Sampled:	11/06/23 10:15	Prepared:	11/14/23 15:39	Analyzed:	11/15/23 23:44
Solids:	77.74	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK30935	Sequence:	S3K1618	Calibration:	SK30019
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.09	1.35	64.5	20 - 108	
SURR: Phenol-d6	2.09	1.38	65.7	23 - 114	
SURR: Nitrobenzene-d5	1.05	0.705	67.3	22 - 108	
SURR: 2-Fluorobiphenyl	1.05	0.636	60.7	21 - 113	
SURR: 2,4,6-Tribromophenol	2.09	1.31	62.4	19 - 110	
SURR: Terphenyl-d14	1.05	0.828	79.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	442993	5.645	301750	5.64	
ISTD: Naphthalene-d8	2022189	6.547	1488511	6.542	
ISTD: Acenaphthene-d10	1187583	8.174	765152	8.169	
ISTD: Phenanthrene-d10	1886438	10.328	1206473	10.318	
ISTD: Chrysene-d12	1036792	15.904	906136	15.865	
ISTD: Perylene-d12	1120887	19.03	986264	18.968	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID: E20017406.D

Sampled: 11/06/23 10:20 Prepared: 11/14/23 15:39 Analyzed: 11/16/23 00:19

Solids: 62.43 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.130	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.260	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.130	U	
95-50-1	1,2-Dichlorobenzene	2	0.130	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.130	U	
541-73-1	1,3-Dichlorobenzene	2	0.130	U	
106-46-7	1,4-Dichlorobenzene	2	0.130	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.260	U	
95-95-4	2,4,5-Trichlorophenol	2	0.130	U	
88-06-2	2,4,6-Trichlorophenol	2	0.130	U	
120-83-2	2,4-Dichlorophenol	2	0.130	U	
105-67-9	2,4-Dimethylphenol	2	0.130	U	
51-28-5	2,4-Dinitrophenol	2	0.260	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.130	U	
606-20-2	2,6-Dinitrotoluene	2	0.130	U	
91-58-7	2-Chloronaphthalene	2	0.130	U	
95-57-8	2-Chlorophenol	2	0.130	U	
91-57-6	2-Methylnaphthalene	2	0.103	JD	
95-48-7	2-Methylphenol	2	0.130	U	UJ
88-74-4	2-Nitroaniline	2	0.260	U	
88-75-5	2-Nitrophenol	2	0.130	U	
65794-96-9	3- & 4-Methylphenols	2	0.130	U	
91-94-1	3,3-Dichlorobenzidine	2	0.130	U	
99-09-2	3-Nitroaniline	2	0.260	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.260	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.130	U	
59-50-7	4-Chloro-3-methylphenol	2	0.130	U	
106-47-8	4-Chloroaniline	2	0.130	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.130	U	
100-01-6	4-Nitroaniline	2	0.260	U	
100-02-7	4-Nitrophenol	2	0.260	U	
83-32-9	Acenaphthene	2	0.130	U	
208-96-8	Acenaphthylene	2	0.130	U	
98-86-2	Acetophenone	2	0.130	U	
62-53-3	Aniline	2	0.521	U	
120-12-7	Anthracene	2	0.130	U	
1912-24-9	Atrazine	2	0.130	U	
100-52-7	Benzaldehyde	2	0.130	U	
92-87-5	Benzidine	2	0.521	U	
56-55-3	Benzo(a)anthracene	2	0.0780	JD	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-03 | File ID: E20017406.D

Sampled: 11/06/23 10:20 | Prepared: 11/14/23 15:39 | Analyzed: 11/16/23 00:19

Solids: 62.43 | Preparation: EPA 3550C | Initial/Final: 30.8 g / 1 mL

Batch: BK30935 | Sequence: S3K1618 | Calibration: SK30019 | Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.0822	JD	
205-99-2	Benzo(b)fluoranthene	2	0.0926	JD	
191-24-2	Benzo(g,h,i)perylene	2	0.130	U	
207-08-9	Benzo(k)fluoranthene	2	0.130	U	
65-85-0	Benzoic acid	2	0.130	U	
100-51-6	Benzyl alcohol	2	0.130	U	
85-68-7	Benzyl butyl phthalate	2	0.130	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.130	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.130	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.130	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.130	U	
105-60-2	Caprolactam	2	0.260	U	
86-74-8	Carbazole	2	0.130	U	
218-01-9	Chrysene	2	0.0780	JD	
53-70-3	Dibenzo(a,h)anthracene	2	0.130	U	
132-64-9	Dibenzofuran	2	0.130	U	
84-66-2	Diethyl phthalate	2	0.130	U	
131-11-3	Dimethyl phthalate	2	0.130	U	
84-74-2	Di-n-butyl phthalate	2	0.130	U	
117-84-0	Di-n-octyl phthalate	2	0.222	D	J
122-39-4	Diphenylamine	2	0.260	U	
206-44-0	Fluoranthene	2	0.138	D	
86-73-7	Fluorene	2	0.130	U	
118-74-1	Hexachlorobenzene	2	0.130	U	
87-68-3	Hexachlorobutadiene	2	0.130	U	
77-47-4	Hexachlorocyclopentadiene	2	0.130	U	UJ
67-72-1	Hexachloroethane	2	0.130	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.130	U	
78-59-1	Isophorone	2	0.130	U	
91-20-3	Naphthalene	2	0.390	D	
98-95-3	Nitrobenzene	2	0.130	U	
62-75-9	N-Nitrosodimethylamine	2	0.130	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.130	U	
86-30-6	N-Nitrosodiphenylamine	2	0.130	U	
87-86-5	Pentachlorophenol	2	0.130	U	
85-01-8	Phenanthrene	2	0.110	JD	
108-95-2	Phenol	2	0.130	U	
129-00-0	Pyrene	2	0.127	JD	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-03	File ID:	E20017406.D
Sampled:	11/06/23 10:20	Prepared:	11/14/23 15:39	Analyzed:	11/16/23 00:19
Solids:	62.43	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BK30935	Sequence:	S3K1618	Calibration:	SK30019
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.60	1.76	67.8	20 - 108	
SURR: Phenol-d6	2.60	1.68	64.6	23 - 114	
SURR: Nitrobenzene-d5	1.30	0.784	60.3	22 - 108	
SURR: 2-Fluorobiphenyl	1.30	0.801	61.6	21 - 113	
SURR: 2,4,6-Tribromophenol	2.60	1.81	69.6	19 - 110	
SURR: Terphenyl-d14	1.30	1.12	86.3	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	442971	5.645	301750	5.64	
ISTD: Naphthalene-d8	2013536	6.546	1488511	6.542	
ISTD: Acenaphthene-d10	1172198	8.174	765152	8.169	
ISTD: Phenanthrene-d10	1970759	10.323	1206473	10.318	
ISTD: Chrysene-d12	1203321	15.88	906136	15.865	
ISTD: Perylene-d12	1092746	18.983	986264	18.968	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-04 | File ID: E20017407.D

Sampled: 11/06/23 10:35 | Prepared: 11/14/23 15:39 | Analyzed: 11/16/23 00:56

Solids: 83.70 | Preparation: EPA 3550C | Initial/Final: 30.7 g / 1 mL

Batch: BK30935 | Sequence: S3K1618 | Calibration: SK30019 | Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0974	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.195	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0974	U	
95-50-1	1,2-Dichlorobenzene	2	0.0974	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0974	U	
541-73-1	1,3-Dichlorobenzene	2	0.0974	U	
106-46-7	1,4-Dichlorobenzene	2	0.0974	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.195	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0974	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0974	U	
120-83-2	2,4-Dichlorophenol	2	0.0974	U	
105-67-9	2,4-Dimethylphenol	2	0.0974	U	
51-28-5	2,4-Dinitrophenol	2	0.195	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0974	U	
606-20-2	2,6-Dinitrotoluene	2	0.0974	U	
91-58-7	2-Chloronaphthalene	2	0.0974	U	
95-57-8	2-Chlorophenol	2	0.0974	U	
91-57-6	2-Methylnaphthalene	2	0.0974	U	
95-48-7	2-Methylphenol	2	0.0974	U	UJ
88-74-4	2-Nitroaniline	2	0.195	U	
88-75-5	2-Nitrophenol	2	0.0974	U	
65794-96-9	3- & 4-Methylphenols	2	0.0974	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0974	U	
99-09-2	3-Nitroaniline	2	0.195	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.195	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0974	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0974	U	
106-47-8	4-Chloroaniline	2	0.0974	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0974	U	
100-01-6	4-Nitroaniline	2	0.195	U	
100-02-7	4-Nitrophenol	2	0.195	U	
83-32-9	Acenaphthene	2	0.0974	U	
208-96-8	Acenaphthylene	2	0.0974	U	
98-86-2	Acetophenone	2	0.0974	U	
62-53-3	Aniline	2	0.390	U	
120-12-7	Anthracene	2	0.0974	U	
1912-24-9	Atrazine	2	0.0974	U	
100-52-7	Benzaldehyde	2	0.0974	U	
92-87-5	Benzidine	2	0.390	U	
56-55-3	Benzo(a)anthracene	2	0.0974	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-04 File ID: E20017407.D

Sampled: 11/06/23 10:35 Prepared: 11/14/23 15:39 Analyzed: 11/16/23 00:56

Solids: 83.70 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.0974	U	
205-99-2	Benzo(b)fluoranthene	2	0.0974	U	
191-24-2	Benzo(g,h,i)perylene	2	0.0974	U	
207-08-9	Benzo(k)fluoranthene	2	0.0974	U	
65-85-0	Benzoic acid	2	0.0974	U	
100-51-6	Benzyl alcohol	2	0.0974	U	
85-68-7	Benzyl butyl phthalate	2	0.0974	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0974	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0974	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0974	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0974	U	
105-60-2	Caprolactam	2	0.195	U	
86-74-8	Carbazole	2	0.0974	U	
218-01-9	Chrysene	2	0.0974	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.0974	U	
132-64-9	Dibenzofuran	2	0.0974	U	
84-66-2	Diethyl phthalate	2	0.0974	U	
131-11-3	Dimethyl phthalate	2	0.0974	U	
84-74-2	Di-n-butyl phthalate	2	0.0974	U	
117-84-0	Di-n-octyl phthalate	2	0.0974	U	UJ
122-39-4	Diphenylamine	2	0.195	U	
206-44-0	Fluoranthene	2	0.0974	U	
86-73-7	Fluorene	2	0.0974	U	
118-74-1	Hexachlorobenzene	2	0.0974	U	
87-68-3	Hexachlorobutadiene	2	0.0974	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0974	U	UJ
67-72-1	Hexachloroethane	2	0.0974	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0974	U	
78-59-1	Isophorone	2	0.0974	U	
91-20-3	Naphthalene	2	0.0974	U	
98-95-3	Nitrobenzene	2	0.0974	U	
62-75-9	N-Nitrosodimethylamine	2	0.0974	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0974	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0974	U	
87-86-5	Pentachlorophenol	2	0.0974	U	
85-01-8	Phenanthrene	2	0.0974	U	
108-95-2	Phenol	2	0.0974	U	
129-00-0	Pyrene	2	0.0974	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	E20017407.D
Sampled:	11/06/23 10:35	Prepared:	11/14/23 15:39	Analyzed:	11/16/23 00:56
Solids:	83.70	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK30935	Sequence:	S3K1618	Calibration:	SK30019
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.95	1.47	75.8	20 - 108	
SURR: Phenol-d6	1.95	1.38	71.0	23 - 114	
SURR: Nitrobenzene-d5	0.973	0.620	63.8	22 - 108	
SURR: 2-Fluorobiphenyl	0.973	0.632	65.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.95	1.44	73.9	19 - 110	
SURR: Terphenyl-d14	0.973	0.808	83.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	420245	5.645	301750	5.64	
ISTD: Naphthalene-d8	1901318	6.546	1488511	6.542	
ISTD: Acenaphthene-d10	1129911	8.174	765152	8.169	
ISTD: Phenanthrene-d10	1950891	10.323	1206473	10.318	
ISTD: Chrysene-d12	1302724	15.875	906136	15.865	
ISTD: Perylene-d12	1232418	18.983	986264	18.968	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID: E20017408.D

Sampled: 11/06/23 10:45 Prepared: 11/14/23 15:39 Analyzed: 11/16/23 01:34

Solids: 90.78 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0904	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.181	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0904	U	
95-50-1	1,2-Dichlorobenzene	2	0.0904	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0904	U	
541-73-1	1,3-Dichlorobenzene	2	0.0904	U	
106-46-7	1,4-Dichlorobenzene	2	0.0904	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.181	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0904	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0904	U	
120-83-2	2,4-Dichlorophenol	2	0.0904	U	
105-67-9	2,4-Dimethylphenol	2	0.0904	U	
51-28-5	2,4-Dinitrophenol	2	0.181	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0904	U	
606-20-2	2,6-Dinitrotoluene	2	0.0904	U	
91-58-7	2-Chloronaphthalene	2	0.0904	U	
95-57-8	2-Chlorophenol	2	0.0904	U	
91-57-6	2-Methylnaphthalene	2	0.0904	U	
95-48-7	2-Methylphenol	2	0.0904	U	UJ
88-74-4	2-Nitroaniline	2	0.181	U	
88-75-5	2-Nitrophenol	2	0.0904	U	
65794-96-9	3- & 4-Methylphenols	2	0.0904	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0904	U	
99-09-2	3-Nitroaniline	2	0.181	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.181	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0904	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0904	U	
106-47-8	4-Chloroaniline	2	0.0904	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0904	U	
100-01-6	4-Nitroaniline	2	0.181	U	
100-02-7	4-Nitrophenol	2	0.181	U	
83-32-9	Acenaphthene	2	0.129	D	
208-96-8	Acenaphthylene	2	0.0563	JD	
98-86-2	Acetophenone	2	0.0904	U	
62-53-3	Aniline	2	0.362	U	
120-12-7	Anthracene	2	0.459	D	
1912-24-9	Atrazine	2	0.0904	U	
100-52-7	Benzaldehyde	2	0.0904	U	
92-87-5	Benzidine	2	0.362	U	
56-55-3	Benzo(a)anthracene	2	1.18	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID: E20017408.D

Sampled: 11/06/23 10:45 Prepared: 11/14/23 15:39 Analyzed: 11/16/23 01:34

Solids: 90.78 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.901	D	
205-99-2	Benzo(b)fluoranthene	2	1.15	D	
191-24-2	Benzo(g,h,i)perylene	2	0.497	D	
207-08-9	Benzo(k)fluoranthene	2	0.376	D	
65-85-0	Benzoic acid	2	0.0904	U	
100-51-6	Benzyl alcohol	2	0.0904	U	
85-68-7	Benzyl butyl phthalate	2	0.0904	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0904	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0904	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0904	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.180	D	
105-60-2	Caprolactam	2	0.181	U	
86-74-8	Carbazole	2	0.0874	JD	
218-01-9	Chrysene	2	1.08	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.134	D	
132-64-9	Dibenzofuran	2	0.0730	JD	
84-66-2	Diethyl phthalate	2	0.0904	U	
131-11-3	Dimethyl phthalate	2	0.0904	U	
84-74-2	Di-n-butyl phthalate	2	0.0904	U	
117-84-0	Di-n-octyl phthalate	2	0.0904	U	UJ
122-39-4	Diphenylamine	2	0.181	U	
206-44-0	Fluoranthene	2	2.23	D	
86-73-7	Fluorene	2	0.137	D	
118-74-1	Hexachlorobenzene	2	0.0904	U	
87-68-3	Hexachlorobutadiene	2	0.0904	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0904	U	UJ
67-72-1	Hexachloroethane	2	0.0904	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.592	D	
78-59-1	Isophorone	2	0.0904	U	
91-20-3	Naphthalene	2	0.0672	JD	
98-95-3	Nitrobenzene	2	0.0904	U	
62-75-9	N-Nitrosodimethylamine	2	0.0904	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0904	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0904	U	
87-86-5	Pentachlorophenol	2	0.0904	U	
85-01-8	Phenanthrene	2	1.37	D	
108-95-2	Phenol	2	0.0904	U	
129-00-0	Pyrene	2	2.79	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-05	File ID:	E20017408.D
Sampled:	11/06/23 10:45	Prepared:	11/14/23 15:39	Analyzed:	11/16/23 01:34
Solids:	90.78	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK30935	Sequence:	S3K1618	Calibration:	SK30019
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.81	0.608	33.6	20 - 108	
SURR: Phenol-d6	1.81	0.686	38.0	23 - 114	
SURR: Nitrobenzene-d5	0.903	0.272	30.1	22 - 108	
SURR: 2-Fluorobiphenyl	0.903	0.318	35.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.81	0.502	27.8	19 - 110	
SURR: Terphenyl-d14	0.903	0.487	53.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	378450	5.645	301750	5.64	
ISTD: Naphthalene-d8	1790407	6.546	1488511	6.542	
ISTD: Acenaphthene-d10	1106154	8.174	765152	8.169	
ISTD: Phenanthrene-d10	1828209	10.323	1206473	10.318	
ISTD: Chrysene-d12	965462	15.884	906136	15.865	
ISTD: Perylene-d12	843401	18.992	986264	18.968	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID: E20017409.D

Sampled: 11/06/23 10:50 Prepared: 11/14/23 15:39 Analyzed: 11/16/23 02:12

Solids: 83.00 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0988	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.197	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0988	U	
95-50-1	1,2-Dichlorobenzene	2	0.0988	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0988	U	
541-73-1	1,3-Dichlorobenzene	2	0.0988	U	
106-46-7	1,4-Dichlorobenzene	2	0.0988	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.197	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0988	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0988	U	
120-83-2	2,4-Dichlorophenol	2	0.0988	U	
105-67-9	2,4-Dimethylphenol	2	0.0988	U	
51-28-5	2,4-Dinitrophenol	2	0.197	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0988	U	
606-20-2	2,6-Dinitrotoluene	2	0.0988	U	
91-58-7	2-Chloronaphthalene	2	0.0988	U	
95-57-8	2-Chlorophenol	2	0.0988	U	
91-57-6	2-Methylnaphthalene	2	0.0988	U	
95-48-7	2-Methylphenol	2	0.0988	U	UJ
88-74-4	2-Nitroaniline	2	0.197	U	
88-75-5	2-Nitrophenol	2	0.0988	U	
65794-96-9	3- & 4-Methylphenols	2	0.0988	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0988	U	
99-09-2	3-Nitroaniline	2	0.197	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.197	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0988	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0988	U	
106-47-8	4-Chloroaniline	2	0.0988	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0988	U	
100-01-6	4-Nitroaniline	2	0.197	U	
100-02-7	4-Nitrophenol	2	0.197	U	
83-32-9	Acenaphthene	2	0.0988	U	
208-96-8	Acenaphthylene	2	0.130	D	
98-86-2	Acetophenone	2	0.0988	U	
62-53-3	Aniline	2	0.396	U	
120-12-7	Anthracene	2	0.137	D	
1912-24-9	Atrazine	2	0.0988	U	
100-52-7	Benzaldehyde	2	0.0988	U	
92-87-5	Benzidine	2	0.396	U	
56-55-3	Benzo(a)anthracene	2	0.596	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID: E20017409.D

Sampled: 11/06/23 10:50 Prepared: 11/14/23 15:39 Analyzed: 11/16/23 02:12

Solids: 83.00 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK30935 Sequence: S3K1618 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.586	D	
205-99-2	Benzo(b)fluoranthene	2	0.736	D	
191-24-2	Benzo(g,h,i)perylene	2	0.284	D	
207-08-9	Benzo(k)fluoranthene	2	0.276	D	
65-85-0	Benzoic acid	2	0.0988	U	
100-51-6	Benzyl alcohol	2	0.0988	U	
85-68-7	Benzyl butyl phthalate	2	0.0988	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0988	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0988	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0988	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0988	U	
105-60-2	Caprolactam	2	0.197	U	
86-74-8	Carbazole	2	0.0988	U	
218-01-9	Chrysene	2	0.623	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.0901	JD	
132-64-9	Dibenzofuran	2	0.0988	U	
84-66-2	Diethyl phthalate	2	0.0988	U	
131-11-3	Dimethyl phthalate	2	0.0988	U	
84-74-2	Di-n-butyl phthalate	2	0.0988	U	
117-84-0	Di-n-octyl phthalate	2	0.0988	U	UJ
122-39-4	Diphenylamine	2	0.197	U	
206-44-0	Fluoranthene	2	0.874	D	
86-73-7	Fluorene	2	0.0988	U	
118-74-1	Hexachlorobenzene	2	0.0988	U	
87-68-3	Hexachlorobutadiene	2	0.0988	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0988	U	UJ
67-72-1	Hexachloroethane	2	0.0988	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.377	D	
78-59-1	Isophorone	2	0.0988	U	
91-20-3	Naphthalene	2	0.0498	JD	
98-95-3	Nitrobenzene	2	0.0988	U	
62-75-9	N-Nitrosodimethylamine	2	0.0988	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0988	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0988	U	
87-86-5	Pentachlorophenol	2	0.0988	U	
85-01-8	Phenanthrene	2	0.174	D	
108-95-2	Phenol	2	0.0988	U	
129-00-0	Pyrene	2	1.17	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-06	File ID:	E20017409.D
Sampled:	11/06/23 10:50	Prepared:	11/14/23 15:39	Analyzed:	11/16/23 02:12
Solids:	83.00	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK30935	Sequence:	S3K1618	Calibration:	SK30019
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.98	1.44	72.7	20 - 108	
SURR: Phenol-d6	1.98	1.42	71.9	23 - 114	
SURR: Nitrobenzene-d5	0.988	0.656	66.4	22 - 108	
SURR: 2-Fluorobiphenyl	0.988	0.639	64.7	21 - 113	
SURR: 2,4,6-Tribromophenol	1.98	1.41	71.3	19 - 110	
SURR: Terphenyl-d14	0.988	0.886	89.7	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	403546	5.645	301750	5.64	
ISTD: Naphthalene-d8	1850201	6.546	1488511	6.542	
ISTD: Acenaphthene-d10	1135143	8.174	765152	8.169	
ISTD: Phenanthrene-d10	1941951	10.328	1206473	10.318	
ISTD: Chrysene-d12	1155438	15.884	906136	15.865	
ISTD: Perylene-d12	1045421	18.988	986264	18.968	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID: E90029171.D

Sampled: 11/06/23 11:00 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 09:30

Solids: 75.95 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.109	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.218	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.109	U	
95-50-1	1,2-Dichlorobenzene	2	0.109	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.109	U	
541-73-1	1,3-Dichlorobenzene	2	0.109	U	
106-46-7	1,4-Dichlorobenzene	2	0.109	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.218	U	
95-95-4	2,4,5-Trichlorophenol	2	0.109	U	
88-06-2	2,4,6-Trichlorophenol	2	0.109	U	
120-83-2	2,4-Dichlorophenol	2	0.109	U	
105-67-9	2,4-Dimethylphenol	2	0.109	U	
51-28-5	2,4-Dinitrophenol	2	0.218	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.109	U	
606-20-2	2,6-Dinitrotoluene	2	0.109	U	
91-58-7	2-Chloronaphthalene	2	0.109	U	
95-57-8	2-Chlorophenol	2	0.109	U	
91-57-6	2-Methylnaphthalene	2	1.10	D	
95-48-7	2-Methylphenol	2	0.109	U	
88-74-4	2-Nitroaniline	2	0.218	U	
88-75-5	2-Nitrophenol	2	0.109	U	
65794-96-9	3- & 4-Methylphenols	2	0.109	U	
91-94-1	3,3-Dichlorobenzidine	2	0.109	U	
99-09-2	3-Nitroaniline	2	0.218	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.218	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.109	U	
59-50-7	4-Chloro-3-methylphenol	2	0.109	U	
106-47-8	4-Chloroaniline	2	0.109	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.109	U	
100-01-6	4-Nitroaniline	2	0.218	U	
100-02-7	4-Nitrophenol	2	0.218	U	
83-32-9	Acenaphthene	2	0.108	JD	
208-96-8	Acenaphthylene	2	0.131	D	
98-86-2	Acetophenone	2	0.109	U	
62-53-3	Aniline	2	0.437	U	
120-12-7	Anthracene	2	0.320	D	
1912-24-9	Atrazine	2	0.109	U	
100-52-7	Benzaldehyde	2	0.109	U	
92-87-5	Benzidine	2	0.437	U	UJ
56-55-3	Benzo(a)anthracene	2	1.20	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID: E90029171.D

Sampled: 11/06/23 11:00 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 09:30

Solids: 75.95 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	2.58	D	
205-99-2	Benzo(b)fluoranthene	2	2.60	D	
191-24-2	Benzo(g,h,i)perylene	2	2.73	D	
207-08-9	Benzo(k)fluoranthene	2	0.803	D	
65-85-0	Benzoic acid	2	0.109	U	
100-51-6	Benzyl alcohol	2	0.109	U	
85-68-7	Benzyl butyl phthalate	2	0.109	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.109	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.109	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.109	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.109	U	
105-60-2	Caprolactam	2	0.218	U	
86-74-8	Carbazole	2	0.0549	JD	
218-01-9	Chrysene	2	1.29	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.449	D	
132-64-9	Dibenzofuran	2	0.162	D	
84-66-2	Diethyl phthalate	2	0.109	U	
131-11-3	Dimethyl phthalate	2	0.109	U	
84-74-2	Di-n-butyl phthalate	2	0.109	U	
117-84-0	Di-n-octyl phthalate	2	0.109	U	
122-39-4	Diphenylamine	2	0.218	U	
206-44-0	Fluoranthene	2	2.24	D	
86-73-7	Fluorene	2	0.197	D	
118-74-1	Hexachlorobenzene	2	0.109	U	
87-68-3	Hexachlorobutadiene	2	0.109	U	
77-47-4	Hexachlorocyclopentadiene	2	0.109	U	UJ
67-72-1	Hexachloroethane	2	0.109	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	2.51	D	
78-59-1	Isophorone	2	0.109	U	
91-20-3	Naphthalene	2	1.20	D	
98-95-3	Nitrobenzene	2	0.109	U	
62-75-9	N-Nitrosodimethylamine	2	0.109	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.109	U	
86-30-6	N-Nitrosodiphenylamine	2	0.109	U	
87-86-5	Pentachlorophenol	2	0.109	U	UJ
85-01-8	Phenanthrene	2	1.15	D	
108-95-2	Phenol	2	0.109	U	
129-00-0	Pyrene	2	2.48	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (14-16ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-07	File ID:	E90029171.D
Sampled:	11/06/23 11:00	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 09:30
Solids:	75.95	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.18	1.14	52.1	20 - 108	
SURR: Phenol-d6	2.18	1.24	56.9	23 - 114	
SURR: Nitrobenzene-d5	1.09	0.794	72.9	22 - 108	
SURR: 2-Fluorobiphenyl	1.09	0.632	58.0	21 - 113	
SURR: 2,4,6-Tribromophenol	2.18	1.42	65.3	19 - 110	
SURR: Terphenyl-d14	1.09	0.715	65.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	563554	5.162	511147	5.162	
ISTD: Naphthalene-d8	2588615	6.22	2536485	6.22	
ISTD: Acenaphthene-d10	1587045	7.998	1414292	7.998	
ISTD: Phenanthrene-d10	1975659	9.997	1880304	9.997	
ISTD: Chrysene-d12	1593588	14.803	1555291	14.803	
ISTD: Perylene-d12	1988983	17.837	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID: E90029172.D

Sampled: 11/06/23 11:10 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 10:00

Solids: 79.97 Preparation: EPA 3550C Initial/Final: 30.3 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.103	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.206	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.103	U	
95-50-1	1,2-Dichlorobenzene	2	0.103	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.103	U	
541-73-1	1,3-Dichlorobenzene	2	0.103	U	
106-46-7	1,4-Dichlorobenzene	2	0.103	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.206	U	
95-95-4	2,4,5-Trichlorophenol	2	0.103	U	
88-06-2	2,4,6-Trichlorophenol	2	0.103	U	
120-83-2	2,4-Dichlorophenol	2	0.103	U	
105-67-9	2,4-Dimethylphenol	2	0.103	U	
51-28-5	2,4-Dinitrophenol	2	0.206	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.103	U	
606-20-2	2,6-Dinitrotoluene	2	0.103	U	
91-58-7	2-Chloronaphthalene	2	0.103	U	
95-57-8	2-Chlorophenol	2	0.103	U	
91-57-6	2-Methylnaphthalene	2	0.103	U	
95-48-7	2-Methylphenol	2	0.103	U	
88-74-4	2-Nitroaniline	2	0.206	U	
88-75-5	2-Nitrophenol	2	0.103	U	
65794-96-9	3- & 4-Methylphenols	2	0.103	U	
91-94-1	3,3-Dichlorobenzidine	2	0.103	U	
99-09-2	3-Nitroaniline	2	0.206	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.206	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.103	U	
59-50-7	4-Chloro-3-methylphenol	2	0.103	U	
106-47-8	4-Chloroaniline	2	0.103	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.103	U	
100-01-6	4-Nitroaniline	2	0.206	U	
100-02-7	4-Nitrophenol	2	0.206	U	
83-32-9	Acenaphthene	2	0.103	U	
208-96-8	Acenaphthylene	2	0.103	U	
98-86-2	Acetophenone	2	0.103	U	
62-53-3	Aniline	2	0.414	U	
120-12-7	Anthracene	2	0.103	U	
1912-24-9	Atrazine	2	0.103	U	
100-52-7	Benzaldehyde	2	0.103	U	
92-87-5	Benzidine	2	0.414	U	UJ
56-55-3	Benzo(a)anthracene	2	0.103	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID: E90029172.D

Sampled: 11/06/23 11:10 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 10:00

Solids: 79.97 Preparation: EPA 3550C Initial/Final: 30.3 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.103	U	
205-99-2	Benzo(b)fluoranthene	2	0.103	U	
191-24-2	Benzo(g,h,i)perylene	2	0.103	U	
207-08-9	Benzo(k)fluoranthene	2	0.103	U	
65-85-0	Benzoic acid	2	0.103	U	
100-51-6	Benzyl alcohol	2	0.103	U	
85-68-7	Benzyl butyl phthalate	2	0.103	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.103	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.103	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.103	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.103	U	
105-60-2	Caprolactam	2	0.206	U	
86-74-8	Carbazole	2	0.103	U	
218-01-9	Chrysene	2	0.103	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.103	U	
132-64-9	Dibenzofuran	2	0.103	U	
84-66-2	Diethyl phthalate	2	0.103	U	
131-11-3	Dimethyl phthalate	2	0.103	U	
84-74-2	Di-n-butyl phthalate	2	0.103	U	
117-84-0	Di-n-octyl phthalate	2	0.103	U	
122-39-4	Diphenylamine	2	0.206	U	
206-44-0	Fluoranthene	2	0.103	U	
86-73-7	Fluorene	2	0.103	U	
118-74-1	Hexachlorobenzene	2	0.103	U	
87-68-3	Hexachlorobutadiene	2	0.103	U	
77-47-4	Hexachlorocyclopentadiene	2	0.103	U	UJ
67-72-1	Hexachloroethane	2	0.103	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.103	U	
78-59-1	Isophorone	2	0.103	U	
91-20-3	Naphthalene	2	0.103	U	
98-95-3	Nitrobenzene	2	0.103	U	
62-75-9	N-Nitrosodimethylamine	2	0.103	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.103	U	
86-30-6	N-Nitrosodiphenylamine	2	0.103	U	
87-86-5	Pentachlorophenol	2	0.103	U	UJ
85-01-8	Phenanthrene	2	0.103	U	
108-95-2	Phenol	2	0.103	U	
129-00-0	Pyrene	2	0.103	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-08	File ID:	E90029172.D
Sampled:	11/06/23 11:10	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 10:00
Solids:	79.97	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.06	1.16	56.4	20 - 108	
SURR: Phenol-d6	2.06	1.09	52.7	23 - 114	
SURR: Nitrobenzene-d5	1.03	0.570	55.2	22 - 108	
SURR: 2-Fluorobiphenyl	1.03	0.549	53.2	21 - 113	
SURR: 2,4,6-Tribromophenol	2.06	1.12	54.0	19 - 110	
SURR: Terphenyl-d14	1.03	0.668	64.7	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	444598	5.156	511147	5.162	
ISTD: Naphthalene-d8	1994206	6.214	2536485	6.22	
ISTD: Acenaphthene-d10	1212811	7.998	1414292	7.998	
ISTD: Phenanthrene-d10	1618637	9.991	1880304	9.997	
ISTD: Chrysene-d12	1338782	14.792	1555291	14.803	
ISTD: Perylene-d12	1769893	17.825	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: E90029173.D

Sampled: 11/06/23 13:15 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 10:29

Solids: 90.97 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0911	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.182	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0911	U	
95-50-1	1,2-Dichlorobenzene	2	0.0911	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0911	U	
541-73-1	1,3-Dichlorobenzene	2	0.0911	U	
106-46-7	1,4-Dichlorobenzene	2	0.0911	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.182	U	UJ
95-95-4	2,4,5-Trichlorophenol	2	0.0911	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.0911	U	UJ
120-83-2	2,4-Dichlorophenol	2	0.0911	U	UJ
105-67-9	2,4-Dimethylphenol	2	0.0911	U	UJ
51-28-5	2,4-Dinitrophenol	2	0.182	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0911	U	
606-20-2	2,6-Dinitrotoluene	2	0.0911	U	
91-58-7	2-Chloronaphthalene	2	0.0911	U	
95-57-8	2-Chlorophenol	2	0.0911	U	UJ
91-57-6	2-Methylnaphthalene	2	0.0911	U	
95-48-7	2-Methylphenol	2	0.0911	U	UJ
88-74-4	2-Nitroaniline	2	0.182	U	
88-75-5	2-Nitrophenol	2	0.0911	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0911	U	UJ
91-94-1	3,3-Dichlorobenzidine	2	0.0911	U	
99-09-2	3-Nitroaniline	2	0.182	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.182	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0911	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0911	U	UJ
106-47-8	4-Chloroaniline	2	0.0911	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0911	U	
100-01-6	4-Nitroaniline	2	0.182	U	
100-02-7	4-Nitrophenol	2	0.182	U	UJ
83-32-9	Acenaphthene	2	0.109	D	
208-96-8	Acenaphthylene	2	0.0911	U	
98-86-2	Acetophenone	2	0.0911	U	
62-53-3	Aniline	2	0.365	U	
120-12-7	Anthracene	2	0.255	D	
1912-24-9	Atrazine	2	0.0911	U	
100-52-7	Benzaldehyde	2	0.0911	U	
92-87-5	Benzidine	2	0.365	U	UJ
56-55-3	Benzo(a)anthracene	2	0.891	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-11 | File ID: E90029173.D

Sampled: 11/06/23 13:15 | Prepared: 11/14/23 08:18 | Analyzed: 11/15/23 10:29

Solids: 90.97 | Preparation: EPA 3550C | Initial/Final: 30.2 g / 1 mL

Batch: BK30881 | Sequence: S3K1544 | Calibration: SK30009 | Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.890	D	
205-99-2	Benzo(b)fluoranthene	2	1.06	D	
191-24-2	Benzo(g,h,i)perylene	2	0.622	D	
207-08-9	Benzo(k)fluoranthene	2	0.390	D	
65-85-0	Benzoic acid	2	0.0911	U	UJ
100-51-6	Benzyl alcohol	2	0.0911	U	
85-68-7	Benzyl butyl phthalate	2	0.0911	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0911	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0911	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0911	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0911	U	
105-60-2	Caprolactam	2	0.182	U	
86-74-8	Carbazole	2	0.0750	JD	
218-01-9	Chrysene	2	0.901	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.146	D	
132-64-9	Dibenzofuran	2	0.0459	JD	
84-66-2	Diethyl phthalate	2	0.0911	U	
131-11-3	Dimethyl phthalate	2	0.0911	U	
84-74-2	Di-n-butyl phthalate	2	0.0911	U	
117-84-0	Di-n-octyl phthalate	2	0.0911	U	
122-39-4	Diphenylamine	2	0.182	U	
206-44-0	Fluoranthene	2	1.79	D	
86-73-7	Fluorene	2	0.0911	U	
118-74-1	Hexachlorobenzene	2	0.0911	U	
87-68-3	Hexachlorobutadiene	2	0.0911	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0911	U	UJ
67-72-1	Hexachloroethane	2	0.0911	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.649	D	
78-59-1	Isophorone	2	0.0911	U	
91-20-3	Naphthalene	2	0.0692	JD	
98-95-3	Nitrobenzene	2	0.0911	U	
62-75-9	N-Nitrosodimethylamine	2	0.0911	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0911	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0911	U	
87-86-5	Pentachlorophenol	2	0.0911	U	UJ
85-01-8	Phenanthrene	2	1.15	D	
108-95-2	Phenol	2	0.0911	U	UJ
129-00-0	Pyrene	2	2.00	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-11 | File ID: E90029173.D

Sampled: 11/06/23 13:15 | Prepared: 11/14/23 08:18 | Analyzed: 11/15/23 10:29

Solids: 90.97 | Preparation: EPA 3550C | Initial/Final: 30.2 g / 1 mL

Batch: BK30881 | Sequence: S3K1544 | Calibration: SK30009 | Instrument: MSBNA9

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.82	0.0480	2.64	20 - 108	*
SURR: Phenol-d6	1.82	0.310	17.0	23 - 114	*
SURR: Nitrobenzene-d5	0.910	0.333	36.6	22 - 108	
SURR: 2-Fluorobiphenyl	0.910	0.295	32.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.82	0.0146	0.800	19 - 110	*
SURR: Terphenyl-d14	0.910	0.347	38.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	534054	5.156	511147	5.162	
ISTD: Naphthalene-d8	2469735	6.214	2536485	6.22	
ISTD: Acenaphthene-d10	1563731	7.998	1414292	7.998	
ISTD: Phenanthrene-d10	2069585	9.997	1880304	9.997	
ISTD: Chrysene-d12	1566390	14.803	1555291	14.803	
ISTD: Perylene-d12	1941048	17.837	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID: E90029174.D

Sampled: 11/06/23 14:00 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 10:58

Solids: 79.53 Preparation: EPA 3550C Initial/Final: 30.6 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.103	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.205	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.103	U	
95-50-1	1,2-Dichlorobenzene	2	0.103	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.103	U	
541-73-1	1,3-Dichlorobenzene	2	0.103	U	
106-46-7	1,4-Dichlorobenzene	2	0.103	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.205	U	
95-95-4	2,4,5-Trichlorophenol	2	0.103	U	
88-06-2	2,4,6-Trichlorophenol	2	0.103	U	
120-83-2	2,4-Dichlorophenol	2	0.103	U	
105-67-9	2,4-Dimethylphenol	2	0.103	U	
51-28-5	2,4-Dinitrophenol	2	0.205	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.103	U	
606-20-2	2,6-Dinitrotoluene	2	0.103	U	
91-58-7	2-Chloronaphthalene	2	0.103	U	
95-57-8	2-Chlorophenol	2	0.103	U	
91-57-6	2-Methylnaphthalene	2	1.82	D	
95-48-7	2-Methylphenol	2	0.103	U	
88-74-4	2-Nitroaniline	2	0.205	U	
88-75-5	2-Nitrophenol	2	0.103	U	
65794-96-9	3- & 4-Methylphenols	2	0.103	U	
91-94-1	3,3-Dichlorobenzidine	2	0.103	U	
99-09-2	3-Nitroaniline	2	0.205	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.205	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.103	U	
59-50-7	4-Chloro-3-methylphenol	2	0.103	U	
106-47-8	4-Chloroaniline	2	0.103	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.103	U	
100-01-6	4-Nitroaniline	2	0.205	U	
100-02-7	4-Nitrophenol	2	0.205	U	
83-32-9	Acenaphthene	2	0.103	U	
208-96-8	Acenaphthylene	2	0.103	U	
98-86-2	Acetophenone	2	0.103	U	
62-53-3	Aniline	2	0.412	U	
120-12-7	Anthracene	2	0.103	U	
1912-24-9	Atrazine	2	0.103	U	
100-52-7	Benzaldehyde	2	0.103	U	
92-87-5	Benzidine	2	0.412	U	UJ
56-55-3	Benzo(a)anthracene	2	0.103	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-12 | File ID: E90029174.D

Sampled: 11/06/23 14:00 | Prepared: 11/14/23 08:18 | Analyzed: 11/15/23 10:58

Solids: 79.53 | Preparation: EPA 3550C | Initial/Final: 30.6 g / 1 mL

Batch: BK30881 | Sequence: S3K1544 | Calibration: SK30009 | Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.103	U	
205-99-2	Benzo(b)fluoranthene	2	0.103	U	
191-24-2	Benzo(g,h,i)perylene	2	0.103	U	
207-08-9	Benzo(k)fluoranthene	2	0.103	U	
65-85-0	Benzoic acid	2	0.103	U	
100-51-6	Benzyl alcohol	2	0.103	U	
85-68-7	Benzyl butyl phthalate	2	0.103	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.103	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.103	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.103	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.103	U	
105-60-2	Caprolactam	2	0.205	U	
86-74-8	Carbazole	2	0.103	U	
218-01-9	Chrysene	2	0.103	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.103	U	
132-64-9	Dibenzofuran	2	0.103	U	
84-66-2	Diethyl phthalate	2	0.103	U	
131-11-3	Dimethyl phthalate	2	0.103	U	
84-74-2	Di-n-butyl phthalate	2	0.103	U	
117-84-0	Di-n-octyl phthalate	2	0.103	U	
122-39-4	Diphenylamine	2	0.205	U	
206-44-0	Fluoranthene	2	0.0649	JD	
86-73-7	Fluorene	2	0.103	U	
118-74-1	Hexachlorobenzene	2	0.103	U	
87-68-3	Hexachlorobutadiene	2	0.103	U	
77-47-4	Hexachlorocyclopentadiene	2	0.103	U	UJ
67-72-1	Hexachloroethane	2	0.103	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.103	U	
78-59-1	Isophorone	2	0.103	U	
91-20-3	Naphthalene	2	3.00	D	
98-95-3	Nitrobenzene	2	0.103	U	
62-75-9	N-Nitrosodimethylamine	2	0.103	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.103	U	
86-30-6	N-Nitrosodiphenylamine	2	0.103	U	
87-86-5	Pentachlorophenol	2	0.103	U	UJ
85-01-8	Phenanthrene	2	0.0731	JD	
108-95-2	Phenol	2	0.103	U	
129-00-0	Pyrene	2	0.0748	JD	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-12	File ID:	E90029174.D
Sampled:	11/06/23 14:00	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 10:58
Solids:	79.53	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.05	0.975	47.4	20 - 108	
SURR: Phenol-d6	2.05	0.999	48.6	23 - 114	
SURR: Nitrobenzene-d5	1.03	0.570	55.4	22 - 108	
SURR: 2-Fluorobiphenyl	1.03	0.505	49.2	21 - 113	
SURR: 2,4,6-Tribromophenol	2.05	1.12	54.6	19 - 110	
SURR: Terphenyl-d14	1.03	0.614	59.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	530495	5.162	511147	5.162	
ISTD: Naphthalene-d8	2441823	6.22	2536485	6.22	
ISTD: Acenaphthene-d10	1538051	7.998	1414292	7.998	
ISTD: Phenanthrene-d10	2006694	9.997	1880304	9.997	
ISTD: Chrysene-d12	1571770	14.803	1555291	14.803	
ISTD: Perylene-d12	1947281	17.831	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID: E90029175.D

Sampled: 11/06/23 14:20 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 11:28

Solids: 80.33 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.101	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.202	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.101	U	
95-50-1	1,2-Dichlorobenzene	2	0.101	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.101	U	
541-73-1	1,3-Dichlorobenzene	2	0.101	U	
106-46-7	1,4-Dichlorobenzene	2	0.101	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.202	U	
95-95-4	2,4,5-Trichlorophenol	2	0.101	U	
88-06-2	2,4,6-Trichlorophenol	2	0.101	U	
120-83-2	2,4-Dichlorophenol	2	0.101	U	
105-67-9	2,4-Dimethylphenol	2	0.101	U	
51-28-5	2,4-Dinitrophenol	2	0.202	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.101	U	
606-20-2	2,6-Dinitrotoluene	2	0.101	U	
91-58-7	2-Chloronaphthalene	2	0.101	U	
95-57-8	2-Chlorophenol	2	0.101	U	
91-57-6	2-Methylnaphthalene	2	0.601	D	
95-48-7	2-Methylphenol	2	0.101	U	
88-74-4	2-Nitroaniline	2	0.202	U	
88-75-5	2-Nitrophenol	2	0.101	U	
65794-96-9	3- & 4-Methylphenols	2	0.101	U	
91-94-1	3,3-Dichlorobenzidine	2	0.101	U	
99-09-2	3-Nitroaniline	2	0.202	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.202	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.101	U	
59-50-7	4-Chloro-3-methylphenol	2	0.101	U	
106-47-8	4-Chloroaniline	2	0.101	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.101	U	
100-01-6	4-Nitroaniline	2	0.202	U	
100-02-7	4-Nitrophenol	2	0.202	U	
83-32-9	Acenaphthene	2	1.09	D	
208-96-8	Acenaphthylene	2	0.539	D	
98-86-2	Acetophenone	2	0.101	U	
62-53-3	Aniline	2	0.405	U	
120-12-7	Anthracene	2	3.14	D	
1912-24-9	Atrazine	2	0.101	U	
100-52-7	Benzaldehyde	2	0.101	U	
92-87-5	Benzidine	2	0.405	U	UJ
65-85-0	Benzoic acid	2	0.101	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-13 | File ID: E90029175.D

Sampled: 11/06/23 14:20 | Prepared: 11/14/23 08:18 | Analyzed: 11/15/23 11:28

Solids: 80.33 | Preparation: EPA 3550C | Initial/Final: 30.8 g / 1 mL

Batch: BK30881 | Sequence: S3K1544 | Calibration: SK30009 | Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
100-51-6	Benzyl alcohol	2	0.101	U	
85-68-7	Benzyl butyl phthalate	2	0.101	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.101	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.101	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.101	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.101	U	
105-60-2	Caprolactam	2	0.202	U	
86-74-8	Carbazole	2	0.403	D	
53-70-3	Dibenzo(a,h)anthracene	2	1.28	D	
132-64-9	Dibenzofuran	2	0.556	D	
84-66-2	Diethyl phthalate	2	0.101	U	
131-11-3	Dimethyl phthalate	2	0.101	U	
84-74-2	Di-n-butyl phthalate	2	0.101	U	
117-84-0	Di-n-octyl phthalate	2	0.101	U	
122-39-4	Diphenylamine	2	0.202	U	
86-73-7	Fluorene	2	1.54	D	
118-74-1	Hexachlorobenzene	2	0.101	U	
87-68-3	Hexachlorobutadiene	2	0.101	U	
77-47-4	Hexachlorocyclopentadiene	2	0.101	U	UJ
67-72-1	Hexachloroethane	2	0.101	U	
78-59-1	Isophorone	2	0.101	U	
91-20-3	Naphthalene	2	1.55	D	
98-95-3	Nitrobenzene	2	0.101	U	
62-75-9	N-Nitrosodimethylamine	2	0.101	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.101	U	
86-30-6	N-Nitrosodiphenylamine	2	0.101	U	
87-86-5	Pentachlorophenol	2	0.101	U	UJ
108-95-2	Phenol	2	0.101	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.02	1.16	57.6	20 - 108	
SURR: Phenol-d6	2.02	1.25	61.6	23 - 114	
SURR: Nitrobenzene-d5	1.01	0.674	66.7	22 - 108	
SURR: 2-Fluorobiphenyl	1.01	0.625	61.8	21 - 113	
SURR: 2,4,6-Tribromophenol	2.02	1.31	64.8	19 - 110	
SURR: Terphenyl-d14	1.01	0.710	70.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	585721	5.162	511147	5.162	
ISTD: Naphthalene-d8	2673740	6.22	2536485	6.22	
ISTD: Acenaphthene-d10	1634713	7.998	1414292	7.998	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13	File ID:	E90029175.D
Sampled:	11/06/23 14:20	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 11:28
Solids:	80.33	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Phenanthrene-d10	2105222	10.003	1880304	9.997	
ISTD: Chrysene-d12	1677237	14.838	1555291	14.803	
ISTD: Perylene-d12	2064223	17.866	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13RE1 File ID: SV649481.D

Sampled: 11/06/23 14:20 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 20:35

Solids: 80.33 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK30881 Sequence: S3K1635 Calibration: SK30008 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
56-55-3	Benzo(a)anthracene	20	10.3	D
50-32-8	Benzo(a)pyrene	20	11.0	D
205-99-2	Benzo(b)fluoranthene	20	12.4	D
191-24-2	Benzo(g,h,i)perylene	20	5.45	D
207-08-9	Benzo(k)fluoranthene	20	4.63	D
218-01-9	Chrysene	20	10.3	D
206-44-0	Fluoranthene	20	21.0	D
193-39-5	Indeno(1,2,3-cd)pyrene	20	7.58	D
85-01-8	Phenanthrene	20	16.3	D
129-00-0	Pyrene	20	18.4	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.02	1.29	64.0	20 - 108	
SURR: Phenol-d6	2.02	1.18	58.4	23 - 114	
SURR: Nitrobenzene-d5	1.01	0.727	72.0	22 - 108	
SURR: 2-Fluorobiphenyl	1.01	0.655	64.8	21 - 113	
SURR: 2,4,6-Tribromophenol	2.02	1.67	82.8	19 - 110	
SURR: Terphenyl-d14	1.01	0.752	74.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	928360	4.77	1097461	4.77	
ISTD: Naphthalene-d8	3175445	5.7	4316114	5.7	
ISTD: Acenaphthene-d10	2344362	7.17	2814441	7.17	
ISTD: Phenanthrene-d10	4604683	9.15	5578166	9.15	
ISTD: Chrysene-d12	4620462	14.57	5338782	14.57	
ISTD: Perylene-d12	5488006	17.66	6166790	17.66	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID: E90029176.D

Sampled: 11/06/23 14:30 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 11:57

Solids: 77.29 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.105	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.210	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.105	U	
95-50-1	1,2-Dichlorobenzene	2	0.105	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.105	U	
541-73-1	1,3-Dichlorobenzene	2	0.105	U	
106-46-7	1,4-Dichlorobenzene	2	0.105	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.210	U	
95-95-4	2,4,5-Trichlorophenol	2	0.105	U	
88-06-2	2,4,6-Trichlorophenol	2	0.105	U	
120-83-2	2,4-Dichlorophenol	2	0.105	U	
105-67-9	2,4-Dimethylphenol	2	0.105	U	
51-28-5	2,4-Dinitrophenol	2	0.210	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.105	U	
606-20-2	2,6-Dinitrotoluene	2	0.105	U	
91-58-7	2-Chloronaphthalene	2	0.105	U	
95-57-8	2-Chlorophenol	2	0.105	U	
91-57-6	2-Methylnaphthalene	2	0.105	U	
95-48-7	2-Methylphenol	2	0.105	U	
88-74-4	2-Nitroaniline	2	0.210	U	
88-75-5	2-Nitrophenol	2	0.105	U	
65794-96-9	3- & 4-Methylphenols	2	0.105	U	
91-94-1	3,3-Dichlorobenzidine	2	0.105	U	
99-09-2	3-Nitroaniline	2	0.210	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.210	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.105	U	
59-50-7	4-Chloro-3-methylphenol	2	0.105	U	
106-47-8	4-Chloroaniline	2	0.105	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.105	U	
100-01-6	4-Nitroaniline	2	0.210	U	
100-02-7	4-Nitrophenol	2	0.210	U	
83-32-9	Acenaphthene	2	0.105	U	
208-96-8	Acenaphthylene	2	0.105	U	
98-86-2	Acetophenone	2	0.105	U	
62-53-3	Aniline	2	0.421	U	
120-12-7	Anthracene	2	0.105	U	
1912-24-9	Atrazine	2	0.105	U	
100-52-7	Benzaldehyde	2	0.105	U	
92-87-5	Benzidine	2	0.421	U	UJ
56-55-3	Benzo(a)anthracene	2	0.105	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0580

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street

Matrix: Soil | Laboratory ID: 23K0580-14 | File ID: E90029176.D

Sampled: 11/06/23 14:30 | Prepared: 11/14/23 08:18 | Analyzed: 11/15/23 11:57

Solids: 77.29 | Preparation: EPA 3550C | Initial/Final: 30.8 g / 1 mL

Batch: BK30881 | Sequence: S3K1544 | Calibration: SK30009 | Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.105	U	
205-99-2	Benzo(b)fluoranthene	2	0.105	U	
191-24-2	Benzo(g,h,i)perylene	2	0.105	U	
207-08-9	Benzo(k)fluoranthene	2	0.105	U	
65-85-0	Benzoic acid	2	0.105	U	
100-51-6	Benzyl alcohol	2	0.105	U	
85-68-7	Benzyl butyl phthalate	2	0.105	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.105	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.105	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.105	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.105	U	
105-60-2	Caprolactam	2	0.210	U	
86-74-8	Carbazole	2	0.105	U	
218-01-9	Chrysene	2	0.105	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.105	U	
132-64-9	Dibenzofuran	2	0.105	U	
84-66-2	Diethyl phthalate	2	0.105	U	
131-11-3	Dimethyl phthalate	2	0.105	U	
84-74-2	Di-n-butyl phthalate	2	0.105	U	
117-84-0	Di-n-octyl phthalate	2	0.105	U	
122-39-4	Diphenylamine	2	0.210	U	
206-44-0	Fluoranthene	2	0.105	U	
86-73-7	Fluorene	2	0.105	U	
118-74-1	Hexachlorobenzene	2	0.105	U	
87-68-3	Hexachlorobutadiene	2	0.105	U	
77-47-4	Hexachlorocyclopentadiene	2	0.105	U	UJ
67-72-1	Hexachloroethane	2	0.105	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.105	U	
78-59-1	Isophorone	2	0.105	U	
91-20-3	Naphthalene	2	0.105	U	
98-95-3	Nitrobenzene	2	0.105	U	
62-75-9	N-Nitrosodimethylamine	2	0.105	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.105	U	
86-30-6	N-Nitrosodiphenylamine	2	0.105	U	
87-86-5	Pentachlorophenol	2	0.105	U	UJ
85-01-8	Phenanthrene	2	0.105	U	
108-95-2	Phenol	2	0.105	U	
129-00-0	Pyrene	2	0.105	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP10 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-14	File ID:	E90029176.D
Sampled:	11/06/23 14:30	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 11:57
Solids:	77.29	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.10	1.13	54.0	20 - 108	
SURR: Phenol-d6	2.10	1.14	54.4	23 - 114	
SURR: Nitrobenzene-d5	1.05	0.593	56.5	22 - 108	
SURR: 2-Fluorobiphenyl	1.05	0.550	52.4	21 - 113	
SURR: 2,4,6-Tribromophenol	2.10	1.10	52.2	19 - 110	
SURR: Terphenyl-d14	1.05	0.673	64.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	542282	5.162	511147	5.162	
ISTD: Naphthalene-d8	2405027	6.22	2536485	6.22	
ISTD: Acenaphthene-d10	1465132	7.998	1414292	7.998	
ISTD: Phenanthrene-d10	1967822	9.997	1880304	9.997	
ISTD: Chrysene-d12	1579673	14.803	1555291	14.803	
ISTD: Perylene-d12	1978408	17.831	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID: E90029178.D

Sampled: 11/07/23 10:50 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 13:44

Solids: 93.38 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0867	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.173	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0867	U	
95-50-1	1,2-Dichlorobenzene	2	0.0867	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0867	U	
541-73-1	1,3-Dichlorobenzene	2	0.0867	U	
106-46-7	1,4-Dichlorobenzene	2	0.0867	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.173	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0867	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0867	U	
120-83-2	2,4-Dichlorophenol	2	0.0867	U	
105-67-9	2,4-Dimethylphenol	2	0.0867	U	
51-28-5	2,4-Dinitrophenol	2	0.173	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0867	U	
606-20-2	2,6-Dinitrotoluene	2	0.0867	U	
91-58-7	2-Chloronaphthalene	2	0.0867	U	
95-57-8	2-Chlorophenol	2	0.0867	U	
91-57-6	2-Methylnaphthalene	2	0.900	D	J
95-48-7	2-Methylphenol	2	0.0867	U	
88-74-4	2-Nitroaniline	2	0.173	U	
88-75-5	2-Nitrophenol	2	0.0867	U	
65794-96-9	3- & 4-Methylphenols	2	0.0867	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0867	U	
99-09-2	3-Nitroaniline	2	0.173	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.173	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0867	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0867	U	
106-47-8	4-Chloroaniline	2	0.0867	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0867	U	
100-01-6	4-Nitroaniline	2	0.173	U	
100-02-7	4-Nitrophenol	2	0.173	U	
83-32-9	Acenaphthene	2	0.0901	D	J
208-96-8	Acenaphthylene	2	0.112	D	J
98-86-2	Acetophenone	2	0.0867	U	
62-53-3	Aniline	2	0.347	U	
120-12-7	Anthracene	2	0.265	D	J
1912-24-9	Atrazine	2	0.0867	U	
100-52-7	Benzaldehyde	2	0.0867	U	
92-87-5	Benzidine	2	0.347	U	UJ
56-55-3	Benzo(a)anthracene	2	1.00	D	J

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID: E90029178.D

Sampled: 11/07/23 10:50 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 13:44

Solids: 93.38 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	2.01	D	J
205-99-2	Benzo(b)fluoranthene	2	2.01	D	J
191-24-2	Benzo(g,h,i)perylene	2	2.13	D	J
207-08-9	Benzo(k)fluoranthene	2	0.663	D	J
65-85-0	Benzoic acid	2	0.0867	U	
100-51-6	Benzyl alcohol	2	0.0867	U	
85-68-7	Benzyl butyl phthalate	2	0.0867	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0867	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0867	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0867	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0867	U	
105-60-2	Caprolactam	2	0.173	U	
86-74-8	Carbazole	2	0.0444	JD	J
218-01-9	Chrysene	2	1.01	D	J
53-70-3	Dibenzo(a,h)anthracene	2	0.0451	JD	J
132-64-9	Dibenzofuran	2	0.0867	U	
84-66-2	Diethyl phthalate	2	0.0867	U	
131-11-3	Dimethyl phthalate	2	0.0867	U	
84-74-2	Di-n-butyl phthalate	2	0.0867	U	
117-84-0	Di-n-octyl phthalate	2	0.0867	U	
122-39-4	Diphenylamine	2	0.173	U	
206-44-0	Fluoranthene	2	1.85	D	J
86-73-7	Fluorene	2	0.159	D	J
118-74-1	Hexachlorobenzene	2	0.0867	U	
87-68-3	Hexachlorobutadiene	2	0.0867	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0867	U	UJ
67-72-1	Hexachloroethane	2	0.0867	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	1.97	D	J
78-59-1	Isophorone	2	0.0867	U	
91-20-3	Naphthalene	2	0.939	D	J
98-95-3	Nitrobenzene	2	0.0867	U	
62-75-9	N-Nitrosodimethylamine	2	0.0867	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0867	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0867	U	
87-86-5	Pentachlorophenol	2	0.0867	U	UJ
85-01-8	Phenanthrene	2	0.916	D	J
108-95-2	Phenol	2	0.0867	U	
129-00-0	Pyrene	2	1.96	D	J

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-15	File ID:	E90029178.D
Sampled:	11/07/23 10:50	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 13:44
Solids:	93.38	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.73	0.837	48.3	20 - 108	
SURR: Phenol-d6	1.73	0.903	52.1	23 - 114	
SURR: Nitrobenzene-d5	0.866	0.642	74.1	22 - 108	
SURR: 2-Fluorobiphenyl	0.866	0.495	57.1	21 - 113	
SURR: 2,4,6-Tribromophenol	1.73	1.52	87.4	19 - 110	
SURR: Terphenyl-d14	0.866	0.600	69.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1050794	5.162	511147	5.162	*
ISTD: Naphthalene-d8	4708316	6.22	2536485	6.22	
ISTD: Acenaphthene-d10	3140424	7.998	1414292	7.998	*
ISTD: Phenanthrene-d10	3761626	9.997	1880304	9.997	
ISTD: Chrysene-d12	3140163	14.815	1555291	14.803	*
ISTD: Perylene-d12	3966110	17.843	1940994	17.825	*

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID: E90029180.D

Sampled: 11/07/23 11:15 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 14:42

Solids: 69.30 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.118	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.235	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.118	U	
95-50-1	1,2-Dichlorobenzene	2	0.118	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.118	U	
541-73-1	1,3-Dichlorobenzene	2	0.118	U	
106-46-7	1,4-Dichlorobenzene	2	0.118	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.235	U	
95-95-4	2,4,5-Trichlorophenol	2	0.118	U	
88-06-2	2,4,6-Trichlorophenol	2	0.118	U	
120-83-2	2,4-Dichlorophenol	2	0.118	U	
105-67-9	2,4-Dimethylphenol	2	0.118	U	
51-28-5	2,4-Dinitrophenol	2	0.235	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.118	U	
606-20-2	2,6-Dinitrotoluene	2	0.118	U	
91-58-7	2-Chloronaphthalene	2	0.118	U	
95-57-8	2-Chlorophenol	2	0.118	U	
91-57-6	2-Methylnaphthalene	2	0.149	D	
95-48-7	2-Methylphenol	2	0.118	U	
88-74-4	2-Nitroaniline	2	0.235	U	
88-75-5	2-Nitrophenol	2	0.118	U	
65794-96-9	3- & 4-Methylphenols	2	0.118	U	
91-94-1	3,3-Dichlorobenzidine	2	0.118	U	
99-09-2	3-Nitroaniline	2	0.235	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.235	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.118	U	
59-50-7	4-Chloro-3-methylphenol	2	0.118	U	
106-47-8	4-Chloroaniline	2	0.118	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.118	U	
100-01-6	4-Nitroaniline	2	0.235	U	
100-02-7	4-Nitrophenol	2	0.235	U	
83-32-9	Acenaphthene	2	0.118	U	
208-96-8	Acenaphthylene	2	0.118	U	
98-86-2	Acetophenone	2	0.118	U	
62-53-3	Aniline	2	0.471	U	
120-12-7	Anthracene	2	0.118	U	
1912-24-9	Atrazine	2	0.118	U	
100-52-7	Benzaldehyde	2	0.118	U	
92-87-5	Benzidine	2	0.471	U	UJ
56-55-3	Benzo(a)anthracene	2	0.0968	JD	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID: E90029180.D

Sampled: 11/07/23 11:15 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 14:42

Solids: 69.30 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.118	D	
205-99-2	Benzo(b)fluoranthene	2	0.148	D	
191-24-2	Benzo(g,h,i)perylene	2	0.103	JD	
207-08-9	Benzo(k)fluoranthene	2	0.118	U	
65-85-0	Benzoic acid	2	0.118	U	
100-51-6	Benzyl alcohol	2	0.118	U	
85-68-7	Benzyl butyl phthalate	2	0.118	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.118	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.118	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.118	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.118	U	
105-60-2	Caprolactam	2	0.235	U	
86-74-8	Carbazole	2	0.118	U	
218-01-9	Chrysene	2	0.0959	JD	
53-70-3	Dibenzo(a,h)anthracene	2	0.118	U	
132-64-9	Dibenzofuran	2	0.118	U	
84-66-2	Diethyl phthalate	2	0.118	U	
131-11-3	Dimethyl phthalate	2	0.118	U	
84-74-2	Di-n-butyl phthalate	2	0.118	U	
117-84-0	Di-n-octyl phthalate	2	0.0968	JD	
122-39-4	Diphenylamine	2	0.235	U	
206-44-0	Fluoranthene	2	0.156	D	
86-73-7	Fluorene	2	0.118	U	
118-74-1	Hexachlorobenzene	2	0.118	U	
87-68-3	Hexachlorobutadiene	2	0.118	U	
77-47-4	Hexachlorocyclopentadiene	2	0.118	U	UJ
67-72-1	Hexachloroethane	2	0.118	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.114	JD	
78-59-1	Isophorone	2	0.118	U	
91-20-3	Naphthalene	2	0.380	D	
98-95-3	Nitrobenzene	2	0.118	U	
62-75-9	N-Nitrosodimethylamine	2	0.118	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.118	U	
86-30-6	N-Nitrosodiphenylamine	2	0.118	U	
87-86-5	Pentachlorophenol	2	0.118	U	UJ
85-01-8	Phenanthrene	2	0.0959	JD	
108-95-2	Phenol	2	0.118	U	
129-00-0	Pyrene	2	0.177	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-16	File ID:	E90029180.D
Sampled:	11/07/23 11:15	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 14:42
Solids:	69.30	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.35	1.16	49.3	20 - 108	
SURR: Phenol-d6	2.35	1.36	57.9	23 - 114	
SURR: Nitrobenzene-d5	1.18	0.764	65.0	22 - 108	
SURR: 2-Fluorobiphenyl	1.18	0.684	58.2	21 - 113	
SURR: 2,4,6-Tribromophenol	2.35	1.20	51.1	19 - 110	
SURR: Terphenyl-d14	1.18	0.756	64.3	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	818370	5.162	511147	5.162	
ISTD: Naphthalene-d8	3717852	6.22	2536485	6.22	
ISTD: Acenaphthene-d10	2370595	7.998	1414292	7.998	
ISTD: Phenanthrene-d10	2873427	9.997	1880304	9.997	
ISTD: Chrysene-d12	2173217	14.803	1555291	14.803	
ISTD: Perylene-d12	2652653	17.837	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID: E90029181.D

Sampled: 11/07/23 11:30 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 15:11

Solids: 65.25 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.124	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.248	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.124	U	
95-50-1	1,2-Dichlorobenzene	2	0.124	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.124	U	
541-73-1	1,3-Dichlorobenzene	2	0.124	U	
106-46-7	1,4-Dichlorobenzene	2	0.124	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.248	U	
95-95-4	2,4,5-Trichlorophenol	2	0.124	U	
88-06-2	2,4,6-Trichlorophenol	2	0.124	U	
120-83-2	2,4-Dichlorophenol	2	0.124	U	
105-67-9	2,4-Dimethylphenol	2	0.124	U	
51-28-5	2,4-Dinitrophenol	2	0.248	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.124	U	
606-20-2	2,6-Dinitrotoluene	2	0.124	U	
91-58-7	2-Chloronaphthalene	2	0.124	U	
95-57-8	2-Chlorophenol	2	0.124	U	
95-48-7	2-Methylphenol	2	0.124	U	
88-74-4	2-Nitroaniline	2	0.248	U	
88-75-5	2-Nitrophenol	2	0.124	U	
65794-96-9	3- & 4-Methylphenols	2	0.124	U	
91-94-1	3,3-Dichlorobenzidine	2	0.124	U	
99-09-2	3-Nitroaniline	2	0.248	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.248	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.124	U	
59-50-7	4-Chloro-3-methylphenol	2	0.124	U	
106-47-8	4-Chloroaniline	2	0.124	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.124	U	
100-01-6	4-Nitroaniline	2	0.248	U	
100-02-7	4-Nitrophenol	2	0.248	U	
83-32-9	Acenaphthene	2	0.333	D	
208-96-8	Acenaphthylene	2	0.0794	JD	
98-86-2	Acetophenone	2	0.124	U	
62-53-3	Aniline	2	0.497	U	
120-12-7	Anthracene	2	0.386	D	
1912-24-9	Atrazine	2	0.124	U	
100-52-7	Benzaldehyde	2	0.124	U	
92-87-5	Benzidine	2	0.497	U	UJ
56-55-3	Benzo(a)anthracene	2	1.40	D	
50-32-8	Benzo(a)pyrene	2	2.37	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID: E90029181.D

Sampled: 11/07/23 11:30 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 15:11

Solids: 65.25 Preparation: EPA 3550C Initial/Final: 30.9 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
205-99-2	Benzo(b)fluoranthene	2	2.77	D	
191-24-2	Benzo(g,h,i)perylene	2	1.89	D	
207-08-9	Benzo(k)fluoranthene	2	1.05	D	
65-85-0	Benzoic acid	2	0.124	U	
100-51-6	Benzyl alcohol	2	0.124	U	
85-68-7	Benzyl butyl phthalate	2	0.124	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.124	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.124	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.124	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.124	U	
105-60-2	Caprolactam	2	0.248	U	
86-74-8	Carbazole	2	0.130	D	
218-01-9	Chrysene	2	1.44	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.565	D	
132-64-9	Dibenzofuran	2	0.130	D	
84-66-2	Diethyl phthalate	2	0.124	U	
131-11-3	Dimethyl phthalate	2	0.124	U	
84-74-2	Di-n-butyl phthalate	2	0.124	U	
117-84-0	Di-n-octyl phthalate	2	0.0913	JD	
122-39-4	Diphenylamine	2	0.248	U	
206-44-0	Fluoranthene	2	2.08	D	
86-73-7	Fluorene	2	0.311	D	
118-74-1	Hexachlorobenzene	2	0.124	U	
87-68-3	Hexachlorobutadiene	2	0.124	U	
77-47-4	Hexachlorocyclopentadiene	2	0.124	U	UJ
67-72-1	Hexachloroethane	2	0.124	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	2.09	D	
78-59-1	Isophorone	2	0.124	U	
98-95-3	Nitrobenzene	2	0.124	U	
62-75-9	N-Nitrosodimethylamine	2	0.124	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.124	U	
86-30-6	N-Nitrosodiphenylamine	2	0.124	U	
87-86-5	Pentachlorophenol	2	0.124	U	UJ
85-01-8	Phenanthrene	2	1.72	D	
108-95-2	Phenol	2	0.124	U	
129-00-0	Pyrene	2	2.12	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.48	1.08	43.7	20 - 108	
SURR: Phenol-d6	2.48	1.37	55.1	23 - 114	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-17	File ID:	E90029181.D
Sampled:	11/07/23 11:30	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 15:11
Solids:	65.25	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	1.24	1.12	90.0	22 - 108	
SURR: 2-Fluorobiphenyl	1.24	0.686	55.4	21 - 113	
SURR: 2,4,6-Tribromophenol	2.48	1.70	68.6	19 - 110	
SURR: Terphenyl-d14	1.24	0.830	67.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	704866	5.168	511147	5.162	
ISTD: Naphthalene-d8	2926199	6.231	2536485	6.22	
ISTD: Acenaphthene-d10	2142555	8.004	1414292	7.998	
ISTD: Phenanthrene-d10	2686608	9.997	1880304	9.997	
ISTD: Chrysene-d12	2079154	14.815	1555291	14.803	
ISTD: Perylene-d12	2526160	17.843	1940994	17.825	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-17RE1	File ID:	E70351583.D
Sampled:	11/07/23 11:30	Prepared:	11/14/23 08:18	Analyzed:	11/16/23 11:10
Solids:	65.25	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 1 mL
Batch:	BK30881	Sequence:	S3K1641	Calibration:	SK30004
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	20	6.41	D
91-20-3	Naphthalene	20	11.1	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.48	1.42	57.2	20 - 108	
SURR: Phenol-d6	2.48	1.26	50.8	23 - 114	
SURR: Nitrobenzene-d5	1.24	1.25	101	22 - 108	
SURR: 2-Fluorobiphenyl	1.24	0.714	57.6	21 - 113	
SURR: 2,4,6-Tribromophenol	2.48	1.79	72.0	19 - 110	
SURR: Terphenyl-d14	1.24	0.972	78.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	496860	4.771	518410	4.765	
ISTD: Naphthalene-d8	2038677	5.807	2420531	5.801	
ISTD: Acenaphthene-d10	1243079	7.459	1339932	7.447	
ISTD: Phenanthrene-d10	2259889	9.478	2341614	9.466	
ISTD: Chrysene-d12	1479798	14.08	1772376	14.062	
ISTD: Perylene-d12	1553768	17.076	1654281	17.059	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID: E90029182.D

Sampled: 11/07/23 11:45 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 15:41

Solids: 78.56 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.103	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.207	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.103	U	
95-50-1	1,2-Dichlorobenzene	2	0.103	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.103	U	
541-73-1	1,3-Dichlorobenzene	2	0.103	U	
106-46-7	1,4-Dichlorobenzene	2	0.103	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.207	U	
95-95-4	2,4,5-Trichlorophenol	2	0.103	U	
88-06-2	2,4,6-Trichlorophenol	2	0.103	U	
120-83-2	2,4-Dichlorophenol	2	0.103	U	
105-67-9	2,4-Dimethylphenol	2	0.103	U	
51-28-5	2,4-Dinitrophenol	2	0.207	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.103	U	
606-20-2	2,6-Dinitrotoluene	2	0.103	U	
91-58-7	2-Chloronaphthalene	2	0.103	U	
95-57-8	2-Chlorophenol	2	0.103	U	
91-57-6	2-Methylnaphthalene	2	0.103	U	
95-48-7	2-Methylphenol	2	0.103	U	
88-74-4	2-Nitroaniline	2	0.207	U	
88-75-5	2-Nitrophenol	2	0.103	U	
65794-96-9	3- & 4-Methylphenols	2	0.103	U	
91-94-1	3,3-Dichlorobenzidine	2	0.103	U	
99-09-2	3-Nitroaniline	2	0.207	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.207	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.103	U	
59-50-7	4-Chloro-3-methylphenol	2	0.103	U	
106-47-8	4-Chloroaniline	2	0.103	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.103	U	
100-01-6	4-Nitroaniline	2	0.207	U	
100-02-7	4-Nitrophenol	2	0.207	U	
83-32-9	Acenaphthene	2	0.103	U	
208-96-8	Acenaphthylene	2	0.103	U	
98-86-2	Acetophenone	2	0.103	U	
62-53-3	Aniline	2	0.414	U	
120-12-7	Anthracene	2	0.103	U	
1912-24-9	Atrazine	2	0.103	U	
100-52-7	Benzaldehyde	2	0.103	U	
92-87-5	Benzidine	2	0.414	U	UJ
56-55-3	Benzo(a)anthracene	2	0.103	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID: E90029182.D

Sampled: 11/07/23 11:45 Prepared: 11/14/23 08:18 Analyzed: 11/15/23 15:41

Solids: 78.56 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK30881 Sequence: S3K1544 Calibration: SK30009 Instrument: MSBNA9

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.103	U	
205-99-2	Benzo(b)fluoranthene	2	0.103	U	
191-24-2	Benzo(g,h,i)perylene	2	0.103	U	
207-08-9	Benzo(k)fluoranthene	2	0.103	U	
65-85-0	Benzoic acid	2	0.103	U	UJ
100-51-6	Benzyl alcohol	2	0.103	U	
85-68-7	Benzyl butyl phthalate	2	0.103	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.103	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.103	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.103	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.103	U	
105-60-2	Caprolactam	2	0.207	U	
86-74-8	Carbazole	2	0.103	U	
218-01-9	Chrysene	2	0.103	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.103	U	
132-64-9	Dibenzofuran	2	0.103	U	
84-66-2	Diethyl phthalate	2	0.103	U	
131-11-3	Dimethyl phthalate	2	0.103	U	
84-74-2	Di-n-butyl phthalate	2	0.103	U	
117-84-0	Di-n-octyl phthalate	2	0.103	U	
122-39-4	Diphenylamine	2	0.207	U	
206-44-0	Fluoranthene	2	0.103	U	
86-73-7	Fluorene	2	0.103	U	
118-74-1	Hexachlorobenzene	2	0.103	U	
87-68-3	Hexachlorobutadiene	2	0.103	U	
77-47-4	Hexachlorocyclopentadiene	2	0.103	U	UJ
67-72-1	Hexachloroethane	2	0.103	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.103	U	
78-59-1	Isophorone	2	0.103	U	
91-20-3	Naphthalene	2	0.103	U	
98-95-3	Nitrobenzene	2	0.103	U	
62-75-9	N-Nitrosodimethylamine	2	0.103	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.103	U	
86-30-6	N-Nitrosodiphenylamine	2	0.103	U	
87-86-5	Pentachlorophenol	2	0.103	U	UJ
85-01-8	Phenanthrene	2	0.103	U	
108-95-2	Phenol	2	0.103	U	
129-00-0	Pyrene	2	0.103	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-18	File ID:	E90029182.D
Sampled:	11/07/23 11:45	Prepared:	11/14/23 08:18	Analyzed:	11/15/23 15:41
Solids:	78.56	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BK30881	Sequence:	S3K1544	Calibration:	SK30009
Instrument:	MSBNA9				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.07	0.919	44.5	20 - 108	
SURR: Phenol-d6	2.07	0.894	43.3	23 - 114	
SURR: Nitrobenzene-d5	1.03	0.454	43.9	22 - 108	
SURR: 2-Fluorobiphenyl	1.03	0.449	43.4	21 - 113	
SURR: 2,4,6-Tribromophenol	2.07	1.07	51.9	19 - 110	
SURR: Terphenyl-d14	1.03	0.650	62.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	666531	5.162	511147	5.162	
ISTD: Naphthalene-d8	3069620	6.22	2536485	6.22	
ISTD: Acenaphthene-d10	1946209	7.998	1414292	7.998	
ISTD: Phenanthrene-d10	2485899	9.997	1880304	9.997	
ISTD: Chrysene-d12	1875498	14.803	1555291	14.803	
ISTD: Perylene-d12	2278558	17.837	1940994	17.825	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: SVOA

METHOD: EPA 8270D SIM

No data validation qualifiers were added

MKP 2/13/2024

DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/5/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP9 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-01	File ID:	E800073540.D
Sampled:	11/06/23 10:00	Prepared:	11/15/23 08:21	Analyzed:	11/15/23 23:56
Solids:	90.53	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.262	52.9	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	197553	9.208	161121	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP9 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-02	File ID:	E800073541.D
Sampled:	11/06/23 10:15	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 00:13
Solids:	77.74	Preparation:	EPA 3550C	Initial/Final:	10.4 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0192	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.481	0.215	44.7	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	187106	9.209	161121	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP9 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-03	File ID:	E800073516.D
Sampled:	11/06/23 10:20	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 16:38
Solids:	62.43	Preparation:	EPA 3550C	Initial/Final:	10.3 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0194	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.485	0.307	63.2	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	176895	9.209	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	E800073517.D
Sampled:	11/06/23 10:35	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 16:56
Solids:	83.70	Preparation:	EPA 3550C	Initial/Final:	10.3 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0194	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.485	0.372	76.6	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	162704	9.209	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP8 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-05	File ID:	E800073509.D
Sampled:	11/06/23 10:45	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 14:33
Solids:	90.78	Preparation:	EPA 3550C	Initial/Final:	10.8 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0185	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.463	0.336	72.5	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	197807	9.209	153336	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP8 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-06	File ID:	E800073518.D
Sampled:	11/06/23 10:50	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 17:13
Solids:	83.00	Preparation:	EPA 3550C	Initial/Final:	10.5 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0190	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.476	0.368	77.2	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	154066	9.208	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP8 (14-16ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-07	File ID:	E800073519.D
Sampled:	11/06/23 11:00	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 17:30
Solids:	75.95	Preparation:	EPA 3550C	Initial/Final:	10.6 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0189	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.472	0.343	72.7	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	162751	9.208	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-08	File ID:	E800073520.D
Sampled:	11/06/23 11:10	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 17:47
Solids:	79.97	Preparation:	EPA 3550C	Initial/Final:	10.8 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0185	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.463	0.310	67.0	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	164875	9.209	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP10 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-11	File ID:	E800073521.D
Sampled:	11/06/23 13:15	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 18:05
Solids:	90.97	Preparation:	EPA 3550C	Initial/Final:	10.4 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0192	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.481	0.323	67.1	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	191355	9.208	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP10 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-12	File ID:	E800073522.D
Sampled:	11/06/23 14:00	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 18:22
Solids:	79.53	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.357	72.2	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	170672	9.209	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13	File ID:	E800073523.D
Sampled:	11/06/23 14:20	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 18:39
Solids:	80.33	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.362	73.1	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	205159	9.209	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP10 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-14	File ID:	E800073524.D
Sampled:	11/06/23 14:30	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 18:56
Solids:	77.29	Preparation:	EPA 3550C	Initial/Final:	10.2 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0196	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.490	0.340	69.4	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	184704	9.208	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP1 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-15	File ID:	E800073525.D
Sampled:	11/07/23 10:50	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 19:14
Solids:	93.38	Preparation:	EPA 3550C	Initial/Final:	10.3 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0194	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.485	0.401	82.6	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	206007	9.209	213918	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP1 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-16	File ID:	E800073527.D
Sampled:	11/07/23 11:15	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 19:52
Solids:	69.30	Preparation:	EPA 3550C	Initial/Final:	10.6 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0189	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.472	0.344	72.9	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	189926	9.209	188027	9.209	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP1 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-17	File ID:	E800073528.D
Sampled:	11/07/23 11:30	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 20:09
Solids:	65.25	Preparation:	EPA 3550C	Initial/Final:	10.2 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0196	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.490	0.288	58.8	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	200143	9.209	188027	9.209	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-18	File ID:	E800073529.D
Sampled:	11/07/23 11:45	Prepared:	11/14/23 08:14	Analyzed:	11/15/23 20:27
Solids:	78.56	Preparation:	EPA 3550C	Initial/Final:	10.3 g / 10 mL
Batch:	BK30878	Sequence:	S3K1542	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0194	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.485	0.368	75.9	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	158794	9.209	188027	9.209	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
CLASS: PFAS
METHOD: EPA 1633 Draft 3

DATA PACKAGE COVER PAGE

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
PFAS Field Blank	23K0580-10
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13RE1
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/6/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-01	File ID:	QQQ32233.d
Sampled:	11/06/23 10:00	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 12:53
Solids:	90.53	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.194	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.219	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.219	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.200	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.219	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.203	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.219	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.219	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.219	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.219	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.219	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.219	U	
2355-31-9	N-MeFOSAA	1	0.219	U	
2991-50-6	N-EtFOSAA	1	0.219	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.437	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.219	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.219	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.211	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.831	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.840	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.875	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.389	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.437	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.437	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.437	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.206	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.820	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.875	U	UJ
763051-92-9	11CL-PF3OUdS	1	0.827	U	UJ
756426-58-1	9CL-PF3ONS	1	0.818	U	UJ
919005-14-4	ADONA	1	0.827	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.212	U	UJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.210	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.09	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.47	U	UJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.47	U	UJ
24448-09-7	N-MeFOSE	1	2.19	U	
31506-32-8	N-MeFOSA	1	0.219	U	
1691-99-2	N-EtFOSE	1	2.19	U	
4151-50-2	N-EtFOSA	1	0.219	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-01	File ID:	QQQ32233.d
Sampled:	11/06/23 10:00	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 12:53
Solids:	90.53	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.12	2.31	109	25 - 150	
M5PFHxA	2.28	2.63	115	25 - 150	
M4PFHpA	2.28	3.05	134	25 - 150	
M3PFHxS	2.16	2.87	133	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.28	2.33	102	25 - 150	
M6PFDA	1.14	1.31	116	25 - 150	
M7PFUdA	1.14	1.24	109	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.14	1.01	89.1	25 - 150	
M2PFTeDA	1.14	0.989	87.0	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.13	9.64	106	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.18	2.18	100	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.56	5.62	123	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.28	2.22	97.4	10 - 150	
d3-N-MeFOSAA	4.56	3.87	85.0	25 - 150	
d5-N-EtFOSAA	4.56	4.53	99.5	25 - 150	
M2-6:2 FTS	4.33	3.13	72.3	25 - 200	
M2-8:2 FTS	4.37	3.41	78.0	25 - 200	
M9PFNA	1.14	1.31	115	25 - 150	
M2-4:2 FTS	4.28	2.94	68.9	25 - 150	
d-N-MeFOSA	2.28	1.61	70.6	25 - 150	
d-N-EtFOSA	2.28	2.04	89.4	25 - 150	
M3HFPO-DA	9.13	11.5	126	25 - 150	
d9-N-EtFOSE	22.8	24.6	108	25 - 150	
d7-N-MeFOSE	22.8	27.2	119	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32451.8	1.1612	37889.63	1.170383	
MPFDA	16065.01	8.615383	17066.77	8.62465	
MPFHxA	49405.02	5.93725	54774.29	5.93725	
MPFHxS	3703.072	6.86155	4205.058	6.86155	
MPFNA	20737.1	8.078116	21121.39	8.078116	
MPFOA	45364.99	7.455667	50946.67	7.455667	
MPFOS	9317.257	8.113816	10149.9	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5288.817	8.077766	6075.888	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34945.55	7.455283	42441.12	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	121023.3	4.338767	142451.3	4.34795	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	148194.6	1.1589	179360.1	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	23248.53	9.484867	33882.96	9.494117	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-01	File ID:	QQQ32233.d
Sampled:	11/06/23 10:00	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 12:53
Solids:	90.53	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3509.698	8.113283	4284.427	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	13810.22	9.101267	15409.06	9.09185	
M7PFUdA-EIS	29934.63	9.078383	35303.64	9.08765	
M6PFDA-EIS	19885.87	8.615	23679.51	8.624267	
M5PFHxA-EIS	71734.27	5.93605	86268.95	5.93605	
M4PFHpA-EIS	11483.87	6.760733	12816.42	6.760733	
M3PFHxS-EIS	10652.34	6.862017	12718.06	6.862017	
M3PFBS-EIS	15938.39	5.122617	20574.43	5.122617	
M3-HFPO-DA-EIS	49624.18	6.235083	57585.81	6.235083	
M2PFTeDA-EIS	13440.94	10.13805	17673.73	10.15658	
M2-8-2FTS-EIS	23910.23	8.577133	26237.55	8.5864	
M2-6-2FTS-EIS	15253.66	7.389633	14655.24	7.389633	
M2-4-2FTS-EIS	21462.04	5.86935	26297.38	5.86935	
d9-NEtFOSE-EIS	5098.887	10.08538	5581.051	10.07617	
d7-NMeFOSE-EIS	10796.66	9.827666	11028.27	9.818434	
d5-NEtFOSA-EIS	1409.661	10.12578	1515.399	10.12578	
d5-N-EtFOSAA-EIS	24365.34	9.05885	26164.91	9.068117	
d3-NMeFOSA-EIS	1690.499	9.859016	2406.567	9.859016	
d3-N-MeFOSAA-EIS	26600.44	8.816767	29047.83	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-02	File ID:	QQQ32234.d
Sampled:	11/06/23 10:15	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:09
Solids:	77.74	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.226	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.256	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.256	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.234	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.256	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.649		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.256	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.256	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.256	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.256	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.256	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.256	U	
2355-31-9	N-MeFOSAA	1	0.256	U	
2991-50-6	N-EtFOSAA	1	0.256	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.511	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.256	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.256	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.247	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.972	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.982	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.02	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.455	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.511	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.511	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.511	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.240	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.959	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.02	U	UJ
763051-92-9	11CL-PF3OUdS	1	0.967	U	UJ
756426-58-1	9CL-PF3ONS	1	0.956	U	UJ
919005-14-4	ADONA	1	0.967	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.248	U	UJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.245	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.28	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.39	U	UJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.39	U	UJ
24448-09-7	N-MeFOSE	1	2.56	U	
31506-32-8	N-MeFOSA	1	0.256	U	
1691-99-2	N-EtFOSE	1	2.56	U	
4151-50-2	N-EtFOSA	1	0.256	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-02	File ID:	QQQ32234.d
Sampled:	11/06/23 10:15	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:09
Solids:	77.74	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.48	3.12	126	25 - 150	
M5PFHxA	2.67	3.69	138	25 - 150	
M4PFHpA	2.67	3.97	149	25 - 150	
M3PFHxS	2.53	3.83	152	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.67	3.12	117	25 - 150	
M6PFDA	1.33	1.92	145	25 - 150	
M7PFUdA	1.33	1.66	125	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.33	1.55	117	25 - 150	
M2PFTeDA	1.33	1.36	102	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.7	13.2	123	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.55	2.98	117	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.33	7.60	143	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.67	3.14	118	10 - 150	
d3-N-MeFOSAA	5.33	4.89	91.8	25 - 150	
d5-N-EtFOSAA	5.33	6.42	121	25 - 150	
M2-6:2 FTS	5.06	3.19	63.1	25 - 200	
M2-8:2 FTS	5.11	3.23	63.2	25 - 200	
M9PFNA	1.33	1.81	136	25 - 150	
M2-4:2 FTS	5.00	3.19	63.9	25 - 150	
d-N-MeFOSA	2.67	2.18	82.0	25 - 150	
d-N-EtFOSA	2.67	3.04	114	25 - 150	
M3HFPO-DA	10.7	15.3	144	25 - 150	
d9-N-EtFOSE	26.7	42.2	158	25 - 150	*
d7-N-MeFOSE	26.7	50.1	188	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	30346.04	1.1612	37889.63	1.170383	
MPFDA	14348.46	8.606116	17066.77	8.62465	
MPFHxA	45859.9	5.946483	54774.29	5.93725	
MPFHxS	3047.947	6.86155	4205.058	6.86155	
MPFNA	17218	8.05955	21121.39	8.078116	
MPFOA	41838.82	7.4464	50946.67	7.455667	
MPFOS	7386.989	8.095266	10149.9	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5199.658	8.0592	6075.888	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	36918.57	7.446017	42441.12	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	129991.5	4.338767	142451.3	4.34795	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	161947.3	1.1589	179360.1	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	27219.11	9.46635	33882.96	9.494117	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-02	File ID:	QQQ32234.d
Sampled:	11/06/23 10:15	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:09
Solids:	77.74	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009	Instrument:	LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3252.539	8.094733	4284.427	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	13238.06	9.082583	15409.06	9.09185	
M7PFUdA-EIS	30599.11	9.069117	35303.64	9.08765	
M6PFDA-EIS	22239.47	8.615	23679.51	8.624267	
M5PFHxA-EIS	79738.13	5.9453	86268.95	5.93605	
M4PFHpA-EIS	11837.61	6.760733	12816.42	6.760733	
M3PFHxS-EIS	10032.99	6.862017	12718.06	6.862017	
M3PFBS-EIS	15165.21	5.122617	20574.43	5.122617	
M3-HFPO-DA-EIS	52547.63	6.235083	57585.81	6.235083	
M2PFTeDA-EIS	14084	10.1104	17673.73	10.15658	
M2-8-2FTS-EIS	15934.47	8.567866	26237.55	8.5864	
M2-6-2FTS-EIS	10954.63	7.380367	14655.24	7.389633	
M2-4-2FTS-EIS	16364.48	5.86935	26297.38	5.86935	
d9-NEtFOSE-EIS	5975.25	10.05772	5581.051	10.07617	
d7-NMeFOSE-EIS	13500.98	9.809216	11028.27	9.818434	
d5-NEtFOSA-EIS	1421.977	10.09812	1515.399	10.12578	
d5-N-EtFOSAA-EIS	23408.74	9.049334	26164.91	9.068117	
d3-NMeFOSA-EIS	1554.05	9.840567	2406.567	9.859016	
d3-N-MeFOSAA-EIS	22771.06	8.816767	29047.83	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-03	File ID:	QQQ32235.d
Sampled:	11/06/23 10:20	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:25
Solids:	62.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.280	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.317	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.317	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.290	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.317	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.395		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.317	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.317	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.317	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.317	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.317	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.317	U	
2355-31-9	N-MeFOSAA	1	0.317	U	
2991-50-6	N-EtFOSAA	1	0.317	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.633	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.317	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.317	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.305	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.20	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.22	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.27	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.563	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.633	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.633	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.633	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.298	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.19	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.27	U	UJ
763051-92-9	11CL-PF3OUdS	1	1.20	U	UJ
756426-58-1	9CL-PF3ONS	1	1.18	U	UJ
919005-14-4	ADONA	1	1.20	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.307	U	UJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.304	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.58	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.91	U	UJ
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.91	U	UJ
24448-09-7	N-MeFOSE	1	3.17	U	
31506-32-8	N-MeFOSA	1	0.317	U	
1691-99-2	N-EtFOSE	1	3.17	U	
4151-50-2	N-EtFOSA	1	0.317	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-03	File ID:	QQQ32235.d
Sampled:	11/06/23 10:20	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:25
Solids:	62.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	3.07	3.80	124	25 - 150	
M5PFHxA	3.30	4.06	123	25 - 150	
M4PFHpA	3.30	4.33	131	25 - 150	
M3PFHxS	3.13	4.84	155	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.30	3.53	107	25 - 150	
M6PFDA	1.65	2.19	133	25 - 150	
M7PFUdA	1.65	2.19	133	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.65	1.80	109	25 - 150	
M2PFTeDA	1.65	1.63	99.1	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	13.2	10.8	81.6	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.16	3.60	114	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.59	8.53	129	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.30	3.49	106	10 - 150	
d3-N-MeFOSAA	6.59	5.81	88.1	25 - 150	
d5-N-EtFOSAA	6.59	7.88	119	25 - 150	
M2-6:2 FTS	6.27	4.24	67.7	25 - 200	
M2-8:2 FTS	6.33	4.85	76.6	25 - 200	
M9PFNA	1.65	1.90	115	25 - 150	
M2-4:2 FTS	6.19	3.70	59.9	25 - 150	
d-N-MeFOSA	3.30	2.29	69.5	25 - 150	
d-N-EtFOSA	3.30	2.94	89.0	25 - 150	
M3HFPO-DA	13.2	16.8	127	25 - 150	
d9-N-EtFOSE	33.0	54.7	166	25 - 150	*
d7-N-MeFOSE	33.0	63.1	191	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32506.48	1.1612	37889.63	1.170383	
MPFDA	14928.3	8.615383	17066.77	8.62465	
MPFHxA	47004.54	5.93725	54774.29	5.93725	
MPFHxS	2730.095	6.86155	4205.058	6.86155	
MPFNA	19799.06	8.078116	21121.39	8.078116	
MPFOA	42624.62	7.455667	50946.67	7.455667	
MPFOS	7297.78	8.113816	10149.9	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5059.745	8.077766	6075.888	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34378.09	7.455283	42441.12	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	120664.9	4.338767	142451.3	4.34795	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	114645.4	1.168083	179360.1	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	26508.61	9.475616	33882.96	9.494117	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-03	File ID:	QQQ32235.d
Sampled:	11/06/23 10:20	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:25
Solids:	62.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3131.025	8.113283	4284.427	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11723.54	9.101267	15409.06	9.09185	
M7PFUdA-EIS	33992.97	9.078383	35303.64	9.08765	
M6PFDA-EIS	21235.97	8.615	23679.51	8.624267	
M5PFHxA-EIS	72759.66	5.93605	86268.95	5.93605	
M4PFHpA-EIS	10709.31	6.760733	12816.42	6.760733	
M3PFHxS-EIS	9129.417	6.862017	12718.06	6.862017	
M3PFBS-EIS	13396.1	5.1134	20574.43	5.122617	
M3-HFPO-DA-EIS	47751.58	6.225833	57585.81	6.235083	
M2PFTeDA-EIS	14236.58	10.11962	17673.73	10.15658	
M2-8-2FTS-EIS	17306.26	8.577133	26237.55	8.5864	
M2-6-2FTS-EIS	10508.37	7.389633	14655.24	7.389633	
M2-4-2FTS-EIS	13730.96	5.8601	26297.38	5.86935	
d9-NEtFOSE-EIS	6130.765	10.07617	5581.051	10.07617	
d7-NMeFOSE-EIS	13448.98	9.818434	11028.27	9.818434	
d5-NEtFOSA-EIS	1066.983	10.11655	1515.399	10.12578	
d5-N-EtFOSAA-EIS	22917.29	9.05885	26164.91	9.068117	
d3-NMeFOSA-EIS	1334.081	9.8498	2406.567	9.859016	
d3-N-MeFOSAA-EIS	21584.83	8.816767	29047.83	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	QQQ32236.d
Sampled:	11/06/23 10:35	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:41
Solids:	83.70	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.208	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.235	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.235	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.215	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.235	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.218	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.235	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.235	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.235	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.235	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.235	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.235	U	
2355-31-9	N-MeFOSAA	1	0.235	U	
2991-50-6	N-EtFOSAA	1	0.235	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.469	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.235	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.235	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.227	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.892	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.901	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.939	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.418	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.469	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.469	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.469	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.221	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.880	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.939	U	
763051-92-9	11CL-PF3OUdS	1	0.887	U	
756426-58-1	9CL-PF3ONS	1	0.878	U	
919005-14-4	ADONA	1	0.887	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.228	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.225	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.17	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.87	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.87	U	
24448-09-7	N-MeFOSE	1	2.35	U	
31506-32-8	N-MeFOSA	1	0.235	U	
1691-99-2	N-EtFOSE	1	2.35	U	
4151-50-2	N-EtFOSA	1	0.235	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	QQQ32236.d
Sampled:	11/06/23 10:35	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:41
Solids:	83.70	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.28	2.68	118	25 - 150	
M5PFHxA	2.45	3.18	130	25 - 150	
M4PFHpA	2.45	3.44	141	25 - 150	
M3PFHxS	2.32	3.33	143	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.45	2.86	117	25 - 150	
M6PFDA	1.22	1.47	120	25 - 150	
M7PFUdA	1.22	1.32	108	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.22	1.25	102	25 - 150	
M2PFTeDA	1.22	0.886	72.6	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.80	11.6	118	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.34	2.16	92.1	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.89	7.06	144	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.45	2.04	83.2	10 - 150	
d3-N-MeFOSAA	4.89	3.22	65.9	25 - 150	
d5-N-EtFOSAA	4.89	3.53	72.3	25 - 150	
M2-6:2 FTS	4.65	2.15	46.3	25 - 200	
M2-8:2 FTS	4.69	1.75	37.2	25 - 200	
M9PFNA	1.22	1.52	124	25 - 150	
M2-4:2 FTS	4.59	2.32	50.5	25 - 150	
d-N-MeFOSA	2.45	1.28	52.4	25 - 150	
d-N-EtFOSA	2.45	1.99	81.3	25 - 150	
M3HFPO-DA	9.80	12.5	128	25 - 150	
d9-N-EtFOSE	24.5	22.4	91.7	25 - 150	
d7-N-MeFOSE	24.5	30.1	123	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32172.1	1.1612	37889.63	1.170383	
MPFDA	12793.56	8.62465	17066.77	8.62465	
MPFHxA	44829.03	5.93725	54774.29	5.93725	
MPFHxS	2612.822	6.86155	4205.058	6.86155	
MPFNA	16295.62	8.078116	21121.39	8.078116	
MPFOA	38309.29	7.455667	50946.67	7.455667	
MPFOS	6369.291	8.113816	10149.9	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4491.212	8.077766	6075.888	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33776.03	7.455283	42441.12	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	128509	4.34795	142451.3	4.34795	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	164724.3	1.1589	179360.1	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	21228.32	9.475616	33882.96	9.494117	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	QQQ32236.d
Sampled:	11/06/23 10:35	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:41
Solids:	83.70	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2208.188	8.113283	4284.427	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8064.363	9.101267	15409.06	9.09185	
M7PFUdA-EIS	23609.5	9.078383	35303.64	9.08765	
M6PFDA-EIS	16505.43	8.624267	23679.51	8.624267	
M5PFHxA-EIS	73234.84	5.93605	86268.95	5.93605	
M4PFHpA-EIS	10933.21	6.760733	12816.42	6.760733	
M3PFHxS-EIS	8103.305	6.862017	12718.06	6.862017	
M3PFBS-EIS	12157.84	5.122617	20574.43	5.122617	
M3-HFPO-DA-EIS	45713.98	6.235083	57585.81	6.235083	
M2PFTeDA-EIS	8951.775	10.12883	17673.73	10.15658	
M2-8-2FTS-EIS	8045.35	8.577133	26237.55	8.5864	
M2-6-2FTS-EIS	6890.904	7.389633	14655.24	7.389633	
M2-4-2FTS-EIS	11058.49	5.8601	26297.38	5.86935	
d9-NEtFOSE-EIS	2975.674	10.08538	5581.051	10.07617	
d7-NMeFOSE-EIS	7621.209	9.827666	11028.27	9.818434	
d5-NEtFOSA-EIS	873.8746	10.11655	1515.399	10.12578	
d5-N-EtFOSAA-EIS	12103.82	9.05885	26164.91	9.068117	
d3-NMeFOSA-EIS	854.4379	9.859016	2406.567	9.859016	
d3-N-MeFOSAA-EIS	14095.26	8.82605	29047.83	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-05	File ID:	QQQ32237.d
Sampled:	11/06/23 10:45	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:57
Solids:	90.78	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.194	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.219	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.219	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.200	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.219	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.204	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.219	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.219	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.219	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.219	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.219	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.219	U	
2355-31-9	N-MeFOSAA	1	0.219	U	
2991-50-6	N-EtFOSAA	1	0.219	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.438	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.219	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.219	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.211	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.832	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.841	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.876	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.390	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.438	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.438	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.438	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.206	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.821	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.876	U	
763051-92-9	11CL-PF3OUdS	1	0.828	U	
756426-58-1	9CL-PF3ONS	1	0.819	U	
919005-14-4	ADONA	1	0.828	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.212	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.210	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.10	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.48	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.48	U	
24448-09-7	N-MeFOSE	1	2.19	U	
31506-32-8	N-MeFOSA	1	0.219	U	
1691-99-2	N-EtFOSE	1	2.19	U	
4151-50-2	N-EtFOSA	1	0.219	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-05	File ID:	QQQ32237.d
Sampled:	11/06/23 10:45	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:57
Solids:	90.78	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.12	1.96	92.2	25 - 150	
M5PFHxA	2.28	2.65	116	25 - 150	
M4PFHpA	2.28	2.75	121	25 - 150	
M3PFHxS	2.16	2.76	127	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.28	2.25	98.6	25 - 150	
M6PFDA	1.14	1.42	124	25 - 150	
M7PFUdA	1.14	1.33	117	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.14	1.27	112	25 - 150	
M2PFTeDA	1.14	1.07	94.3	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.14	0.738	8.07	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.18	2.43	111	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.56	4.75	104	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.28	1.80	78.6	10 - 150	
d3-N-MeFOSAA	4.56	3.87	84.8	25 - 150	
d5-N-EtFOSAA	4.56	4.37	95.7	25 - 150	
M2-6:2 FTS	4.34	2.65	61.1	25 - 200	
M2-8:2 FTS	4.38	4.81	110	25 - 200	
M9PFNA	1.14	1.15	101	25 - 150	
M2-4:2 FTS	4.28	1.83	42.9	25 - 150	
d-N-MeFOSA	2.28	0.955	41.8	25 - 150	
d-N-EtFOSA	2.28	1.54	67.5	25 - 150	
M3HFPO-DA	9.14	9.04	98.8	25 - 150	
d9-N-EtFOSE	22.8	29.4	129	25 - 150	
d7-N-MeFOSE	22.8	31.8	139	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32431.68	1.1612	37889.63	1.170383	
MPFDA	15239.43	8.615383	17066.77	8.62465	
MPFHxA	51232.16	5.93725	54774.29	5.93725	
MPFHxS	3592.23	6.8708	4205.058	6.86155	
MPFNA	22232.35	8.078116	21121.39	8.078116	
MPFOA	48677.07	7.455667	50946.67	7.455667	
MPFOS	10237.56	8.113816	10149.9	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4966.075	8.077766	6075.888	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	36138.36	7.4553	42441.12	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	105983.3	4.338767	142451.3	4.34795	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	11326.66	1.168083	179360.1	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	27680.71	9.475616	33882.96	9.494117	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-05	File ID:	QQQ32237.d
Sampled:	11/06/23 10:45	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 13:57
Solids:	90.78	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4278.363	8.113283	4284.427	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12247.72	9.101267	15409.06	9.09185	
M7PFUdA-EIS	30493.44	9.069117	35303.64	9.08765	
M6PFDA-EIS	20302.84	8.615	23679.51	8.624267	
M5PFHxA-EIS	74718.23	5.93605	86268.95	5.93605	
M4PFHpA-EIS	10715.66	6.76995	12816.42	6.760733	
M3PFHxS-EIS	9893.546	6.871267	12718.06	6.862017	
M3PFBS-EIS	13099.22	5.122617	20574.43	5.122617	
M3-HFPO-DA-EIS	40375.03	6.235083	57585.81	6.235083	
M2PFTeDA-EIS	13829.95	10.12883	17673.73	10.15658	
M2-8-2FTS-EIS	32664.9	8.577133	26237.55	8.5864	
M2-6-2FTS-EIS	12554.26	7.3989	14655.24	7.389633	
M2-4-2FTS-EIS	12935.81	5.86935	26297.38	5.86935	
d9-NEtFOSE-EIS	6717.078	10.07617	5581.051	10.07617	
d7-NMeFOSE-EIS	13898.78	9.827666	11028.27	9.818434	
d5-NEtFOSA-EIS	1176.647	10.12578	1515.399	10.12578	
d5-N-EtFOSAA-EIS	25754.74	9.05885	26164.91	9.068117	
d3-NMeFOSA-EIS	1099.561	9.859016	2406.567	9.859016	
d3-N-MeFOSAA-EIS	29152.5	8.816767	29047.83	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-06	File ID:	QQQ32238.d
Sampled:	11/06/23 10:50	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 14:13
Solids:	83.00	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.211	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.238	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.238	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.218	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.238	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.240		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.238	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.238	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.238	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.238	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.238	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.238	U	
2355-31-9	N-MeFOSAA	1	0.238	U	
2991-50-6	N-EtFOSAA	1	0.238	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.476	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.238	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.238	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.230	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.905	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.914	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.952	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.424	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.476	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.476	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.476	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.224	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.893	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.952	U	
763051-92-9	11CL-PF3OUdS	1	0.900	U	
756426-58-1	9CL-PF3ONS	1	0.890	U	
919005-14-4	ADONA	1	0.900	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.231	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.229	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.19	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.95	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.95	U	
24448-09-7	N-MeFOSE	1	2.38	U	
31506-32-8	N-MeFOSA	1	0.238	U	
1691-99-2	N-EtFOSE	1	2.38	U	
4151-50-2	N-EtFOSA	1	0.238	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-06	File ID:	QQQ32238.d
Sampled:	11/06/23 10:50	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 14:13
Solids:	83.00	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.31	2.88	125	25 - 150	
M5PFHxA	2.48	3.24	130	25 - 150	
M4PFHpA	2.48	3.63	146	25 - 150	
M3PFHxS	2.35	3.84	163	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.48	3.03	122	25 - 150	
M6PFDA	1.24	1.74	141	25 - 150	
M7PFUdA	1.24	1.78	144	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.24	1.70	137	25 - 150	
M2PFTeDA	1.24	1.52	123	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.94	1.16	11.7	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.38	2.85	120	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.96	6.03	122	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.48	2.75	111	10 - 150	
d3-N-MeFOSAA	4.96	5.13	103	25 - 150	
d5-N-EtFOSAA	4.96	6.08	123	25 - 150	
M2-6:2 FTS	4.71	2.91	61.6	25 - 200	
M2-8:2 FTS	4.76	4.83	102	25 - 200	
M9PFNA	1.24	1.75	141	25 - 150	
M2-4:2 FTS	4.65	2.73	58.6	25 - 150	
d-N-MeFOSA	2.48	1.32	53.1	25 - 150	
d-N-EtFOSA	2.48	1.64	66.2	25 - 150	
M3HFPO-DA	9.94	9.95	100	25 - 150	
d9-N-EtFOSE	24.8	36.5	147	25 - 150	
d7-N-MeFOSE	24.8	42.7	172	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32638.22	1.1612	37889.63	1.170383	
MPFDA	14173.3	8.615383	17066.77	8.62465	
MPFHxA	49182.82	5.946483	54774.29	5.93725	
MPFHxS	2863.252	6.8708	4205.058	6.86155	
MPFNA	19403.87	8.078116	21121.39	8.078116	
MPFOA	43344.41	7.455667	50946.67	7.455667	
MPFOS	8377.585	8.113816	10149.9	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	6067.867	8.077766	6075.888	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	39893.47	7.4553	42441.12	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	118700.5	4.338767	142451.3	4.34795	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	16514.29	1.1589	179360.1	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	31534.83	9.475616	33882.96	9.494117	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-06	File ID:	QQQ32238.d
Sampled:	11/06/23 10:50	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 14:13
Solids:	83.00	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3786.556	8.113283	4284.427	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	14135.19	9.101267	15409.06	9.09185	
M7PFUdA-EIS	34882.47	9.078383	35303.64	9.08765	
M6PFDA-EIS	21363.31	8.615	23679.51	8.624267	
M5PFHxA-EIS	80674.81	5.9453	86268.95	5.93605	
M4PFHpA-EIS	12478.51	6.76995	12816.42	6.760733	
M3PFHxS-EIS	10104.25	6.871267	12718.06	6.862017	
M3PFBS-EIS	14134.71	5.122617	20574.43	5.122617	
M3-HFPO-DA-EIS	39246.82	6.24435	57585.81	6.235083	
M2PFTeDA-EIS	16715.25	10.12883	17673.73	10.15658	
M2-8-2FTS-EIS	24063.01	8.577133	26237.55	8.5864	
M2-6-2FTS-EIS	10054.34	7.3989	14655.24	7.389633	
M2-4-2FTS-EIS	14086.73	5.86935	26297.38	5.86935	
d9-NEtFOSE-EIS	6355.51	10.08538	5581.051	10.07617	
d7-NMeFOSE-EIS	14030.55	9.827666	11028.27	9.818434	
d5-NEtFOSA-EIS	751.5183	10.12578	1515.399	10.12578	
d5-N-EtFOSAA-EIS	26990.1	9.05885	26164.91	9.068117	
d3-NMeFOSA-EIS	1143.076	9.859016	2406.567	9.859016	
d3-N-MeFOSAA-EIS	29114.69	8.816767	29047.83	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID: QQQ32239.d

Sampled: 11/06/23 11:00 Prepared: 11/14/23 13:41 Analyzed: 11/16/23 14:29

Solids: 75.95 Preparation: EPA 1633 Prep Initial/Final: 5.09 g / 5 mL

Batch: BK30911 Sequence: S3K1638 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.229	U
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.259	U
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.259	U
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.237	U
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.259	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.241	U
375-95-1	Perfluorononanoic acid (PFNA)	1	0.259	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.259	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.259	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.259	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.259	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.259	U
2355-31-9	N-MeFOSAA	1	0.259	U
2991-50-6	N-EtFOSAA	1	0.259	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.517	U
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.259	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.259	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.250	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.983	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.993	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.03	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.460	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.517	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.517	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.517	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.243	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.970	U
13252-13-6	HFPO-DA (Gen-X)	1	1.03	U
763051-92-9	11CL-PF3OUdS	1	0.978	U
756426-58-1	9CL-PF3ONS	1	0.967	U
919005-14-4	ADONA	1	0.978	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.251	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.248	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.29	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.47	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.47	U
24448-09-7	N-MeFOSE	1	2.59	U
31506-32-8	N-MeFOSA	1	0.259	U
1691-99-2	N-EtFOSE	1	2.59	U
4151-50-2	N-EtFOSA	1	0.259	U

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MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (14-16ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-07	File ID:	QQQ32239.d
Sampled:	11/06/23 11:00	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 14:29
Solids:	75.95	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.51	2.64	105	25 - 150	
M5PFHxA	2.70	3.22	120	25 - 150	
M4PFHpA	2.70	3.69	137	25 - 150	
M3PFHxS	2.55	3.69	144	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.70	2.88	107	25 - 150	
M6PFDA	1.35	1.66	123	25 - 150	
M7PFUdA	1.35	1.76	131	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.35	1.74	129	25 - 150	
M2PFTeDA	1.35	1.31	97.1	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.8	0.793	7.34	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.58	2.91	113	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.39	4.43	82.2	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.70	2.43	90.2	10 - 150	
d3-N-MeFOSAA	5.39	4.49	83.3	25 - 150	
d5-N-EtFOSAA	5.39	5.67	105	25 - 150	
M2-6:2 FTS	5.12	2.73	53.3	25 - 200	
M2-8:2 FTS	5.17	4.18	80.8	25 - 200	
M9PFNA	1.35	1.72	128	25 - 150	
M2-4:2 FTS	5.06	2.13	42.0	25 - 150	
d-N-MeFOSA	2.70	1.12	41.5	25 - 150	
d-N-EtFOSA	2.70	1.85	68.6	25 - 150	
M3HFPO-DA	10.8	9.36	86.7	25 - 150	
d9-N-EtFOSE	27.0	35.5	132	25 - 150	
d7-N-MeFOSE	27.0	40.6	151	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	33023.17	1.1612	37889.63	1.170383	
MPFDA	14448.77	8.62465	17066.77	8.62465	
MPFHxA	47497.13	5.93725	54774.29	5.93725	
MPFHxS	3382.192	6.8708	4205.058	6.86155	
MPFNA	18380.78	8.0874	21121.39	8.078116	
MPFOA	46203.73	7.464933	50946.67	7.455667	
MPFOS	9112.085	8.1231	10149.9	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5219.268	8.087033	6075.888	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	37158.42	7.464567	42441.12	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	77410.78	4.329566	142451.3	4.34795	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	10490.6	1.168083	179360.1	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	30368.89	9.46635	33882.96	9.494117	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (14-16ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-07	File ID:	QQQ32239.d
Sampled:	11/06/23 11:00	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 14:29
Solids:	75.95	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3863.412	8.113283	4284.427	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12515.65	9.09185	15409.06	9.09185	
M7PFUdA-EIS	32379.41	9.069117	35303.64	9.08765	
M6PFDA-EIS	19068.4	8.615	23679.51	8.624267	
M5PFHxA-EIS	71409.68	5.93605	86268.95	5.93605	
M4PFHpA-EIS	11277.41	6.76995	12816.42	6.760733	
M3PFHxS-EIS	10588.55	6.871267	12718.06	6.862017	
M3PFBS-EIS	14085.08	5.1134	20574.43	5.122617	
M3-HFPO-DA-EIS	32805.33	6.235083	57585.81	6.235083	
M2PFTeDA-EIS	13484.52	10.1104	17673.73	10.15658	
M2-8-2FTS-EIS	22602.26	8.577133	26237.55	8.5864	
M2-6-2FTS-EIS	10275.2	7.3989	14655.24	7.389633	
M2-4-2FTS-EIS	11872.39	5.8601	26297.38	5.86935	
d9-NEtFOSE-EIS	6117.006	10.06693	5581.051	10.07617	
d7-NMeFOSE-EIS	13366.14	9.809216	11028.27	9.818434	
d5-NEtFOSA-EIS	1051.263	10.10733	1515.399	10.12578	
d5-N-EtFOSAA-EIS	25213.35	9.049334	26164.91	9.068117	
d3-NMeFOSA-EIS	969.0906	9.840567	2406.567	9.859016	
d3-N-MeFOSAA-EIS	25501.04	8.816767	29047.83	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-08	File ID:	QQQ32242.d
Sampled:	11/06/23 11:10	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 15:18
Solids:	79.97	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.221	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.250	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.250	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.228	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.250	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.232	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.250	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.250	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.250	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.250	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.250	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.250	U	
2355-31-9	N-MeFOSAA	1	0.250	U	
2991-50-6	N-EtFOSAA	1	0.250	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.499	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.250	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.250	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.241	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.948	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.958	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.998	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.444	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.499	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.499	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.499	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.235	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.936	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.998	U	
763051-92-9	11CL-PF3OUdS	1	0.943	U	
756426-58-1	9CL-PF3ONS	1	0.933	U	
919005-14-4	ADONA	1	0.943	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.242	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.240	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.25	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.24	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.24	U	
24448-09-7	N-MeFOSE	1	2.50	U	
31506-32-8	N-MeFOSA	1	0.250	U	
1691-99-2	N-EtFOSE	1	2.50	U	
4151-50-2	N-EtFOSA	1	0.250	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-08	File ID:	QQQ32242.d
Sampled:	11/06/23 11:10	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 15:18
Solids:	79.97	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.42	3.23	133	25 - 150	
M5PFHxA	2.60	3.25	125	25 - 150	
M4PFHpA	2.60	3.68	141	25 - 150	
M3PFHxS	2.46	3.59	146	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.60	2.80	108	25 - 150	
M6PFDA	1.30	1.35	104	25 - 150	
M7PFUdA	1.30	1.72	132	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.30	1.44	111	25 - 150	
M2PFTeDA	1.30	1.37	106	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.4	3.16	30.3	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.49	2.74	110	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.20	5.67	109	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.60	2.42	92.8	10 - 150	
d3-N-MeFOSAA	5.20	4.29	82.6	25 - 150	
d5-N-EtFOSAA	5.20	5.11	98.3	25 - 150	
M2-6:2 FTS	4.94	2.28	46.2	25 - 200	
M2-8:2 FTS	4.99	2.02	40.4	25 - 200	
M9PFNA	1.30	1.67	129	25 - 150	
M2-4:2 FTS	4.88	2.43	49.7	25 - 150	
d-N-MeFOSA	2.60	1.56	60.0	25 - 150	
d-N-EtFOSA	2.60	2.34	90.1	25 - 150	
M3HFPO-DA	10.4	9.00	86.3	25 - 150	
d9-N-EtFOSE	26.0	45.7	176	25 - 150	*
d7-N-MeFOSE	26.0	50.0	192	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	34654	1.170383	41501.9	1.179567	
MPFDA	13017.38	8.65245	16871.13	8.633933	
MPFHxA	49143.59	5.96495	54424.38	5.96495	
MPFHxS	2360.447	6.889317	3141.206	6.889317	
MPFNA	17972.56	8.10595	19560.98	8.096684	
MPFOA	40848.53	7.483483	43746.51	7.483483	
MPFOS	5606.177	8.14165	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5137.123	8.114883	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33080.2	7.492383	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	106316.7	4.35715	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	45398.01	1.177267	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	23465.6	9.494117	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-08	File ID:	QQQ32242.d
Sampled:	11/06/23 11:10	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 15:18
Solids:	79.97	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2323.423	8.141117	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	7915.497	9.1291	11927.36	9.119817	
M7PFUdA-EIS	29410.77	9.096867	35726.57	9.096867	
M6PFDA-EIS	14458.97	8.6428	21282.01	8.633533	
M5PFHxA-EIS	77177.07	5.963767	85202.02	5.963767	
M4PFHpA-EIS	12057.05	6.788417	12251.44	6.788417	
M3PFHxS-EIS	7432.042	6.889783	8440.767	6.889783	
M3PFBS-EIS	12446.41	5.141067	14508.93	5.1503	
M3-HFPO-DA-EIS	33824	6.2536	34583.16	6.262866	
M2PFTeDA-EIS	13255	10.13805	18947.22	10.15658	
M2-8-2FTS-EIS	7890.642	8.604934	18236.65	8.604934	
M2-6-2FTS-EIS	6209.97	7.426717	7924.992	7.41745	
M2-4-2FTS-EIS	9864.49	5.88805	11320.77	5.8973	
d9-NEtFOSE-EIS	5015.694	10.0946	10175.07	10.10382	
d7-NMeFOSE-EIS	10447.92	9.8369	19156.27	9.846117	
d5-NEtFOSA-EIS	870.9122	10.135	1509.369	10.14422	
d5-N-EtFOSAA-EIS	14481.8	9.077383	22947.22	9.077383	
d3-NMeFOSA-EIS	862.7783	9.877483	1277.464	9.877483	
d3-N-MeFOSAA-EIS	15542.76	8.845417	24748.24	8.845417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

PFAS Field Blank

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Water	Laboratory ID:	23K0580-10	File ID:	QQQ32202.d
Sampled:	11/06/23 00:00	Prepared:	11/14/23 12:11	Analyzed:	11/15/23 20:34
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	500 mL / 5 mL
Batch:	BK30905	Sequence:	S3K1554	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.77	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	2.00	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	2.00	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.83	U	UJ
335-67-1	Perfluorooctanoic acid (PFOA)	1	2.00	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	1.86	U	UJ
375-95-1	Perfluorononanoic acid (PFNA)	1	2.00	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.00	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	2.00	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	2.00	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	2.00	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	2.00	U	
2355-31-9	N-MeFOSAA	1	2.00	U	
2991-50-6	N-EtFOSAA	1	2.00	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.304	J	J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	2.00	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.91	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.93	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.60	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.68	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	8.00	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.56	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	4.00	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	4.00	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	4.00	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.88	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.50	U	J
13252-13-6	HFPO-DA (Gen-X)	1	8.00	U	UJ
763051-92-9	11CL-PF3OUdS	1	7.56	U	
756426-58-1	9CL-PF3ONS	1	7.48	U	
919005-14-4	ADONA	1	7.56	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.94	U	UJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.92	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	5.00	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	25.0	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	25.0	U	
24448-09-7	N-MeFOSE	1	20.0	U	
31506-32-8	N-MeFOSA	1	2.00	U	
1691-99-2	N-EtFOSE	1	20.0	U	
4151-50-2	N-EtFOSA	1	2.00	U	UJ

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

PFAS Field Blank

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Water	Laboratory ID:	23K0580-10	File ID:	QQQ32202.d
Sampled:	11/06/23 00:00	Prepared:	11/14/23 12:11	Analyzed:	11/15/23 20:34
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	500 mL / 5 mL
Batch:	BK30905	Sequence:	S3K1554	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	23.3	12.9	55.4	25 - 150	
M5PFHxA	25.0	16.7	66.9	25 - 150	
M4PFHpA	25.0	28.7	115	25 - 150	
M3PFHxS	23.7	22.2	93.7	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	25.0	22.5	90.0	25 - 150	
M6PFDA	12.5	7.08	56.6	25 - 150	
M7PFUdA	12.5	5.51	44.1	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	12.5	5.00	40.0	25 - 150	
M2PFTeDA	12.5	4.25	34.0	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	100	0.570	0.570	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	24.0	9.44	39.4	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	50.0	5.67	11.3	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	25.0	12.6	50.5	10 - 150	
d3-N-MeFOSAA	50.0	16.1	32.1	25 - 150	
d5-N-EtFOSAA	50.0	15.2	30.4	25 - 150	
M2-6:2 FTS	47.6	21.3	44.7	25 - 200	
M2-8:2 FTS	48.0	11.3	23.6	25 - 200	*
M9PFNA	12.5	7.78	62.2	25 - 150	
M2-4:2 FTS	46.9	18.0	38.5	25 - 150	
d-N-MeFOSA	25.0	11.0	44.1	25 - 150	
d-N-EtFOSA	25.0	14.0	56.0	25 - 150	
M3HFPO-DA	100	75.1	75.1	25 - 150	
d9-N-EtFOSE	250	86.2	34.5	25 - 150	
d7-N-MeFOSE	250	111	44.2	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	30588.99	1.170383	37417.25	1.179567	
MPFDA	13132.41	8.633917	14619.6	8.62465	
MPFHxA	43758.47	5.96495	51330.18	5.93725	
MPFHxS	3378.603	6.889317	3104.258	6.86155	
MPFNA	18166.17	8.096684	18532.69	8.0874	
MPFOA	40238.23	7.483483	47242.29	7.455667	
MPFOS	8334.138	8.132383	7576.957	8.1231	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3010.158	8.096316	5017.333	8.087033	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	32688.82	7.473834	38064.12	7.455283	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	11820.71	4.35715	136082.3	4.35715	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	903.8961	1.177267	174879.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	10266.75	9.503366	29368.42	9.475616	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

PFAS Field Blank

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Water	Laboratory ID:	23K0580-10	File ID:	QQQ32202.d
Sampled:	11/06/23 00:00	Prepared:	11/14/23 12:11	Analyzed:	11/15/23 20:34
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	500 mL / 5 mL
Batch:	BK30905	Sequence:	S3K1554	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	1483.594	8.122566	3151.642	8.122566	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	7680.662	9.11055	11439.64	9.101267	
M7PFUdA-EIS	11881.97	9.096867	28809.57	9.078383	
M6PFDA-EIS	9580.883	8.633533	19526.65	8.624267	
M5PFHxA-EIS	43946.1	5.963767	79399.09	5.93605	
M4PFHpA-EIS	10448.75	6.788417	12382.35	6.760733	
M3PFHxS-EIS	8214.314	6.889783	9522.563	6.862017	
M3PFBS-EIS	8895.086	5.141067	15426.19	5.122617	
M3-HFPO-DA-EIS	31385.92	6.2536	51521.85	6.235083	
M2PFTeDA-EIS	5162.07	10.16578	17927.68	10.11962	
M2-8-2FTS-EIS	7923.661	8.595667	18009.46	8.595667	
M2-6-2FTS-EIS	10344.73	7.41745	10676.41	7.3989	
M2-4-2FTS-EIS	13085.24	5.88805	17155.35	5.86935	
d9-NEtFOSE-EIS	1755.066	10.10382	9754.889	10.06693	
d7-NMeFOSE-EIS	4299.027	9.846117	17695.47	9.818434	
d5-NEtFOSA-EIS	930.0989	10.14422	2109.451	10.10733	
d5-N-EtFOSAA-EIS	8004.529	9.077383	17817.07	9.05885	
d3-NMeFOSA-EIS	1132.896	9.886717	2134.456	9.8498	
d3-N-MeFOSAA-EIS	10797.48	8.835333	20741.53	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: QQQ32243.d

Sampled: 11/06/23 13:15 Prepared: 11/14/23 13:41 Analyzed: 11/16/23 15:34

Solids: 90.97 Preparation: EPA 1633 Prep Initial/Final: 5.07 g / 5 mL

Batch: BK30911 Sequence: S3K1638 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.192	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.217	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.217	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.198	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.217	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.202	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.217	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.217	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.217	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.217	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.217	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.217	U	
2355-31-9	N-MeFOSAA	1	0.217	U	
2991-50-6	N-EtFOSAA	1	0.217	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.434	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.217	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.217	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.209	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.824	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.833	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.867	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.386	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.434	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.434	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.434	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.204	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.813	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.867	U	
763051-92-9	11CL-PF3OUdS	1	0.820	U	
756426-58-1	9CL-PF3ONS	1	0.811	U	
919005-14-4	ADONA	1	0.820	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.210	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.208	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.08	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.42	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.42	U	
24448-09-7	N-MeFOSE	1	2.17	U	
31506-32-8	N-MeFOSA	1	0.217	U	
1691-99-2	N-EtFOSE	1	2.17	U	
4151-50-2	N-EtFOSA	1	0.217	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-11	File ID:	QQQ32243.d
Sampled:	11/06/23 13:15	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 15:34
Solids:	90.97	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.10	1.85	88.0	25 - 150	
M5PFHxA	2.26	2.20	97.2	25 - 150	
M4PFHpA	2.26	2.56	113	25 - 150	
M3PFHxS	2.14	2.85	133	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.26	2.22	98.3	25 - 150	
M6PFDA	1.13	1.26	112	25 - 150	
M7PFUdA	1.13	1.25	111	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.13	1.13	99.8	25 - 150	
M2PFTeDA	1.13	0.912	80.8	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.05	0.254	2.81	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.16	2.27	105	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.52	0.924	20.5	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.26	2.01	88.8	10 - 150	
d3-N-MeFOSAA	4.52	2.31	51.3	25 - 150	
d5-N-EtFOSAA	4.52	3.24	71.8	25 - 150	
M2-6:2 FTS	4.29	1.63	37.9	25 - 200	
M2-8:2 FTS	4.34	2.35	54.1	25 - 200	
M9PFNA	1.13	1.31	117	25 - 150	
M2-4:2 FTS	4.24	1.33	31.3	25 - 150	
d-N-MeFOSA	2.26	1.38	61.2	25 - 150	
d-N-EtFOSA	2.26	1.61	71.0	25 - 150	
M3HFPO-DA	9.05	6.45	71.3	25 - 150	
d9-N-EtFOSE	22.6	33.6	149	25 - 150	
d7-N-MeFOSE	22.6	37.8	167	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	31405.36	1.170383	41501.9	1.179567	
MPFDA	15228.63	8.65245	16871.13	8.633933	
MPFHxA	49113.68	5.96495	54424.38	5.96495	
MPFHxS	2880.708	6.898567	3141.206	6.889317	
MPFNA	18670.58	8.115233	19560.98	8.096684	
MPFOA	43737.8	7.49275	43746.51	7.483483	
MPFOS	7830.57	8.150933	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4823.496	8.114883	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	32373.43	7.492383	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	19935.43	4.366333	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	3761.749	1.168083	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	24699.95	9.512617	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: QQQ32243.d

Sampled: 11/06/23 13:15 Prepared: 11/14/23 13:41 Analyzed: 11/16/23 15:34

Solids: 90.97 Preparation: EPA 1633 Prep Initial/Final: 5.07 g / 5 mL

Batch: BK30911 Sequence: S3K1638 Calibration: SJ30009 Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3075.344	8.141117	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10584.15	9.138383	11927.36	9.119817	
M7PFUdA-EIS	28886.28	9.106133	35726.57	9.096867	
M6PFDA-EIS	18214.36	8.652066	21282.01	8.633533	
M5PFHxA-EIS	60029.39	5.963767	85202.02	5.963767	
M4PFHpA-EIS	9666.612	6.7982	12251.44	6.788417	
M3PFHxS-EIS	8275.137	6.899034	8440.767	6.889783	
M3PFBS-EIS	10025.96	5.1503	14508.93	5.1503	
M3-HFPO-DA-EIS	28025.39	6.262866	34583.16	6.262866	
M2PFTeDA-EIS	11841.28	10.15658	18947.22	10.15658	
M2-8-2FTS-EIS	12916.2	8.6142	18236.65	8.604934	
M2-6-2FTS-EIS	6219.853	7.426717	7924.992	7.41745	
M2-4-2FTS-EIS	7578.442	5.8973	11320.77	5.8973	
d9-NEtFOSE-EIS	5929.297	10.11303	10175.07	10.10382	
d7-NMeFOSE-EIS	12759.18	9.85535	19156.27	9.846117	
d5-NEtFOSA-EIS	983.7093	10.15343	1509.369	10.14422	
d5-N-EtFOSAA-EIS	14781.84	9.0959	22947.22	9.077383	
d3-NMeFOSA-EIS	1228.398	9.886717	1277.464	9.877483	
d3-N-MeFOSAA-EIS	13480.88	8.8547	24748.24	8.845417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID: QQQ32244.d

Sampled: 11/06/23 14:00 Prepared: 11/14/23 13:41 Analyzed: 11/16/23 15:50

Solids: 79.53 Preparation: EPA 1633 Prep Initial/Final: 5.05 g / 5 mL

Batch: BK30911 Sequence: S3K1638 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.220	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.249	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.249	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.228	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.249	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.232	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.249	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.249	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.249	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.249	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.249	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.249	U	
2355-31-9	N-MeFOSAA	1	0.249	U	
2991-50-6	N-EtFOSAA	1	0.249	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.498	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.249	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.249	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.240	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.946	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.956	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.996	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.443	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.498	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.498	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.498	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.234	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.934	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.996	U	
763051-92-9	11CL-PF3OUdS	1	0.941	U	
756426-58-1	9CL-PF3ONS	1	0.931	U	
919005-14-4	ADONA	1	0.941	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.242	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.239	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.24	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.22	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.22	U	
24448-09-7	N-MeFOSE	1	2.49	U	
31506-32-8	N-MeFOSA	1	0.249	U	
1691-99-2	N-EtFOSE	1	2.49	U	
4151-50-2	N-EtFOSA	1	0.249	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-12	File ID:	QQQ32244.d
Sampled:	11/06/23 14:00	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 15:50
Solids:	79.53	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.42	1.72	71.0	25 - 150	
M5PFHxA	2.60	2.68	103	25 - 150	
M4PFHpA	2.60	3.77	145	25 - 150	
M3PFHxS	2.46	3.63	148	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.60	3.06	118	25 - 150	
M6PFDA	1.29	1.98	153	25 - 150	*
M7PFUdA	1.29	1.74	134	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.29	1.74	134	25 - 150	
M2PFTeDA	1.29	1.38	106	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.4	0.399	3.83	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.48	3.13	126	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.19	0.603	11.6	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.60	2.43	93.6	10 - 150	
d3-N-MeFOSAA	5.19	5.15	99.3	25 - 150	
d5-N-EtFOSAA	5.19	6.36	123	25 - 150	
M2-6:2 FTS	4.93	3.28	66.5	25 - 200	
M2-8:2 FTS	4.98	4.70	94.4	25 - 200	
M9PFNA	1.29	1.80	139	25 - 150	
M2-4:2 FTS	4.87	2.14	44.0	25 - 150	
d-N-MeFOSA	2.60	1.18	45.4	25 - 150	
d-N-EtFOSA	2.60	1.50	57.7	25 - 150	
M3HFPO-DA	10.4	7.56	72.7	25 - 150	
d9-N-EtFOSE	26.0	36.0	139	25 - 150	
d7-N-MeFOSE	26.0	42.1	162	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32043.42	1.188733	41501.9	1.179567	
MPFDA	13915.62	8.643184	16871.13	8.633933	
MPFHxA	46898.79	5.96495	54424.38	5.96495	
MPFHxS	3060.404	6.898567	3141.206	6.889317	
MPFNA	18934.27	8.115233	19560.98	8.096684	
MPFOA	42460.21	7.49275	43746.51	7.483483	
MPFOS	8086.759	8.150933	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5837.282	8.114883	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	37683.72	7.492383	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	10816.58	4.375533	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	5313.601	1.18645	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	30405.4	9.484867	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-12	File ID:	QQQ32244.d
Sampled:	11/06/23 14:00	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 15:50
Solids:	79.53	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3837.836	8.1504	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11519.75	9.1291	11927.36	9.119817	
M7PFUdA-EIS	31908.96	9.10615	35726.57	9.096867	
M6PFDA-EIS	22803.61	8.6428	21282.01	8.633533	
M5PFHxA-EIS	60912.11	5.963767	85202.02	5.963767	
M4PFHpA-EIS	11822.35	6.788417	12251.44	6.788417	
M3PFHxS-EIS	10080.87	6.899034	8440.767	6.889783	
M3PFBS-EIS	8602.096	5.1503	14508.93	5.1503	
M3-HFPO-DA-EIS	27190.61	6.262866	34583.16	6.262866	
M2PFTeDA-EIS	14226.99	10.12883	18947.22	10.15658	
M2-8-2FTS-EIS	23936.02	8.6142	18236.65	8.604934	
M2-6-2FTS-EIS	11597.94	7.426717	7924.992	7.41745	
M2-4-2FTS-EIS	11327.21	5.8973	11320.77	5.8973	
d9-NEtFOSE-EIS	5707.94	10.08538	10175.07	10.10382	
d7-NMeFOSE-EIS	12825.85	9.8369	19156.27	9.846117	
d5-NEtFOSA-EIS	852.3384	10.11655	1509.369	10.14422	
d5-N-EtFOSAA-EIS	26087.48	9.077383	22947.22	9.077383	
d3-NMeFOSA-EIS	941.6725	9.86825	1277.464	9.877483	
d3-N-MeFOSAA-EIS	26956.21	8.8547	24748.24	8.845417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13RE1	File ID:	QQQ32428.d
Sampled:	11/06/23 14:20	Prepared:	11/20/23 09:47	Analyzed:	11/20/23 18:56
Solids:	80.33	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK31249	Sequence:	S3K2056	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.219	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.247	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.247	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.226	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.247	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.230	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.247	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.247	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.247	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.247	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.247	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.247	U	
2355-31-9	N-MeFOSAA	1	0.247	U	
2991-50-6	N-EtFOSAA	1	0.247	U	R
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.494	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.247	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.247	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.238	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.939	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.948	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.988	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.440	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.494	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.494	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.494	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.232	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.926	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.988	U	UJ
763051-92-9	11CL-PF3OUdS	1	0.934	U	UJ
756426-58-1	9CL-PF3ONS	1	0.924	U	
919005-14-4	ADONA	1	0.934	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.240	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.237	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.23	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.17	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.17	U	
24448-09-7	N-MeFOSE	1	2.47	U	
31506-32-8	N-MeFOSA	1	0.247	U	
1691-99-2	N-EtFOSE	1	2.47	U	
4151-50-2	N-EtFOSA	1	0.247	U	UJ

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13RE1	File ID:	QQQ32428.d
Sampled:	11/06/23 14:20	Prepared:	11/20/23 09:47	Analyzed:	11/20/23 18:56
Solids:	80.33	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK31249	Sequence:	S3K2056	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.40	2.15	89.7	25 - 150	
M5PFHxA	2.57	2.66	103	25 - 150	
M4PFHpA	2.57	4.07	158	25 - 150	*
M3PFHxS	2.44	3.17	130	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.57	2.75	107	25 - 150	
M6PFDA	1.28	1.59	124	25 - 150	
M7PFUdA	1.28	1.70	132	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.28	1.44	112	25 - 150	
M2PFTeDA	1.28	1.07	83.6	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.3	0.539	5.23	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.46	2.97	120	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.14	1.68	32.6	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.57	1.95	75.6	10 - 150	
d3-N-MeFOSAA	5.14	3.74	72.8	25 - 150	
d5-N-EtFOSAA	5.14	4.70	91.3	25 - 150	
M2-6:2 FTS	4.89	3.70	75.7	25 - 200	
M2-8:2 FTS	4.94	3.75	76.0	25 - 200	
M9PFNA	1.28	1.45	113	25 - 150	
M2-4:2 FTS	4.83	2.86	59.2	25 - 150	
d-N-MeFOSA	2.57	1.23	48.0	25 - 150	
d-N-EtFOSA	2.57	1.16	45.2	25 - 150	
M3HFPO-DA	10.3	10.9	106	25 - 150	
d9-N-EtFOSE	25.7	15.3	59.5	25 - 150	
d7-N-MeFOSE	25.7	17.0	66.2	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	36407.37	1.225467	38807.57	1.1612	
MPFDA	14010.41	8.717334	14655.28	8.6988	
MPFHxA	50071.78	6.020383	53623.22	6.0019	
MPFHxS	3908.199	6.954683	4071.771	6.935583	
MPFNA	20915.69	8.171467	20227.77	8.15235	
MPFOA	45705.3	7.548717	46769.44	7.539433	
MPFOS	9725.544	8.20815	10235.04	8.18865	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5165.985	8.171117	5496.475	8.152	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	36302.96	7.548367	36763.36	7.5298	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	35437.96	4.4499	132428.3	4.384717	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	7984.782	1.23235	171609.3	1.168083	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	23942.58	9.5777	27382.9	9.5592	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13RE1	File ID:	QQQ32428.d
Sampled:	11/06/23 14:20	Prepared:	11/20/23 09:47	Analyzed:	11/20/23 18:56
Solids:	80.33	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK31249	Sequence:	S3K2056	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4401.871	8.20755	4412.283	8.197416	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11468.6	9.1291	14424.58	9.1291	
M7PFUdA-EIS	29659.45	9.171284	32038.83	9.162017	
M6PFDA-EIS	18557.59	8.707666	18760.92	8.6984	
M5PFHxA-EIS	65943.05	6.019183	79637.31	6.000717	
M4PFHpA-EIS	12883.02	6.854183	13600.6	6.835166	
M3PFHxS-EIS	11176.79	6.95515	11187.9	6.93605	
M3PFBS-EIS	14155.39	5.20565	20270.61	5.16875	
M3-HFPO-DA-EIS	41945.86	6.31855	52832.61	6.300034	
M2PFTeDA-EIS	10113.45	10.23947	13339.4	10.22105	
M2-8-2FTS-EIS	28979.68	8.6698	29432.9	8.660533	
M2-6-2FTS-EIS	19664.15	7.491617	19677.62	7.473067	
M2-4-2FTS-EIS	22545.39	5.9441	32102.51	5.925617	
d9-NEtFOSE-EIS	3295.16	10.15965	4522.778	10.15965	
d7-NMeFOSE-EIS	6823.495	9.9015	8420.972	9.910717	
d5-NEtFOSA-EIS	927.0348	10.19907	1697.988	10.20827	
d5-N-EtFOSAA-EIS	22646.54	9.151567	23629.37	9.133	
d3-NMeFOSA-EIS	1303.725	9.943117	2087.603	9.93285	
d3-N-MeFOSAA-EIS	24872.9	8.9104	28030.44	8.901116	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-14	File ID:	QQQ32246.d
Sampled:	11/06/23 14:30	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:22
Solids:	77.29	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.226	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.255	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.255	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.233	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.255	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.237	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.255	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.255	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.255	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.255	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.255	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.255	U	
2355-31-9	N-MeFOSAA	1	0.255	U	
2991-50-6	N-EtFOSAA	1	0.255	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.510	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.255	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.255	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.246	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.970	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.980	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.02	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.454	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.510	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.510	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.510	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.240	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.957	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.02	U	
763051-92-9	11CL-PF3OUdS	1	0.965	U	
756426-58-1	9CL-PF3ONS	1	0.954	U	
919005-14-4	ADONA	1	0.965	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.248	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.245	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.28	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.38	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.38	U	
24448-09-7	N-MeFOSE	1	2.55	U	
31506-32-8	N-MeFOSA	1	0.255	U	
1691-99-2	N-EtFOSE	1	2.55	U	
4151-50-2	N-EtFOSA	1	0.255	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-14	File ID:	QQQ32246.d
Sampled:	11/06/23 14:30	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:22
Solids:	77.29	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.48	2.20	88.7	25 - 150	
M5PFHxA	2.66	2.90	109	25 - 150	
M4PFHpA	2.66	3.70	139	25 - 150	
M3PFHxS	2.52	3.80	151	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.66	3.36	126	25 - 150	
M6PFDA	1.33	1.74	131	25 - 150	
M7PFUdA	1.33	1.88	141	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.33	1.66	125	25 - 150	
M2PFTeDA	1.33	1.42	107	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.7	0.398	3.73	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.55	2.73	107	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.31	0.730	13.7	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.66	2.59	97.5	10 - 150	
d3-N-MeFOSAA	5.31	5.35	101	25 - 150	
d5-N-EtFOSAA	5.31	6.62	125	25 - 150	
M2-6:2 FTS	5.05	2.44	48.3	25 - 200	
M2-8:2 FTS	5.10	2.73	53.5	25 - 200	
M9PFNA	1.33	1.83	138	25 - 150	
M2-4:2 FTS	4.99	2.25	45.1	25 - 150	
d-N-MeFOSA	2.66	1.57	59.0	25 - 150	
d-N-EtFOSA	2.66	1.86	69.8	25 - 150	
M3HFPO-DA	10.7	9.61	90.2	25 - 150	
d9-N-EtFOSE	26.6	43.4	163	25 - 150	*
d7-N-MeFOSE	26.6	48.4	182	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	31447.7	1.170383	41501.9	1.179567	
MPFDA	14066.4	8.65245	16871.13	8.633933	
MPFHxA	46298.24	5.96495	54424.38	5.96495	
MPFHxS	2552.57	6.889317	3141.206	6.889317	
MPFNA	15134.24	8.10595	19560.98	8.096684	
MPFOA	37557.04	7.483483	43746.51	7.483483	
MPFOS	5944.128	8.14165	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4627.062	8.1056	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	35777.04	7.4831	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	12604.7	4.366333	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	5077.482	1.168083	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	28639.07	9.512617	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP10 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-14	File ID:	QQQ32246.d
Sampled:	11/06/23 14:30	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:22
Solids:	77.29	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2403.514	8.141117	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8814.345	9.1291	11927.36	9.119817	
M7PFUdA-EIS	33992.33	9.115417	35726.57	9.096867	
M6PFDA-EIS	19771.73	8.652066	21282.01	8.633533	
M5PFHxA-EIS	63559.88	5.963767	85202.02	5.963767	
M4PFHpA-EIS	11185.82	6.788417	12251.44	6.788417	
M3PFHxS-EIS	8327.159	6.889783	8440.767	6.889783	
M3PFBS-EIS	8960.861	5.1503	14508.93	5.1503	
M3-HFPO-DA-EIS	33288.35	6.262866	34583.16	6.262866	
M2PFTeDA-EIS	14495.51	10.15658	18947.22	10.15658	
M2-8-2FTS-EIS	11300.52	8.6142	18236.65	8.604934	
M2-6-2FTS-EIS	7025.891	7.41745	7924.992	7.41745	
M2-4-2FTS-EIS	9667.298	5.88805	11320.77	5.8973	
d9-NEtFOSE-EIS	4868.715	10.10382	10175.07	10.10382	
d7-NMeFOSE-EIS	10514.42	9.85535	19156.27	9.846117	
d5-NEtFOSA-EIS	700.7087	10.14422	1509.369	10.14422	
d5-N-EtFOSAA-EIS	19454.1	9.0959	22947.22	9.077383	
d3-NMeFOSA-EIS	900.2764	9.895933	1277.464	9.877483	
d3-N-MeFOSAA-EIS	20088.79	8.8547	24748.24	8.845417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-15	File ID:	QQQ32247.d
Sampled:	11/07/23 10:50	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:39
Solids:	93.38	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.187	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.0566	J	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.211	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.193	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.211	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	2.64		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.211	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.211	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.211	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.211	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.211	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.211	U	
2355-31-9	N-MeFOSAA	1	0.211	U	
2991-50-6	N-EtFOSAA	1	0.211	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.422	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.211	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.211	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.203	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.801	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.809	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.843	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.375	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.422	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.422	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.422	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.198	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.791	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.843	U	
763051-92-9	11CL-PF3OUdS	1	0.797	U	
756426-58-1	9CL-PF3ONS	1	0.788	U	
919005-14-4	ADONA	1	0.797	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.204	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.202	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.05	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.27	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.27	U	
24448-09-7	N-MeFOSE	1	2.11	U	
31506-32-8	N-MeFOSA	1	0.211	U	
1691-99-2	N-EtFOSE	1	2.11	U	
4151-50-2	N-EtFOSA	1	0.211	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-15	File ID:	QQQ32247.d
Sampled:	11/07/23 10:50	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:39
Solids:	93.38	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.04	1.71	83.6	25 - 150	
M5PFHxA	2.20	2.12	96.6	25 - 150	
M4PFHpA	2.20	2.47	112	25 - 150	
M3PFHxS	2.08	2.51	120	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.20	2.03	92.2	25 - 150	
M6PFDA	1.10	1.04	94.8	25 - 150	
M7PFUdA	1.10	1.01	92.1	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.10	0.817	74.5	25 - 150	
M2PFTeDA	1.10	0.685	62.5	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	8.80	0.791	8.99	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.10	2.12	101	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.39	4.41	100	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.20	1.65	75.1	10 - 150	
d3-N-MeFOSAA	4.39	2.93	66.6	25 - 150	
d5-N-EtFOSAA	4.39	3.32	75.6	25 - 150	
M2-6:2 FTS	4.17	2.58	61.9	25 - 200	
M2-8:2 FTS	4.22	4.57	108	25 - 200	
M9PFNA	1.10	0.982	89.6	25 - 150	
M2-4:2 FTS	4.12	1.46	35.5	25 - 150	
d-N-MeFOSA	2.20	0.710	32.3	25 - 150	
d-N-EtFOSA	2.20	0.914	41.6	25 - 150	
M3HFPO-DA	8.80	7.74	88.0	25 - 150	
d9-N-EtFOSE	22.0	18.5	84.4	25 - 150	
d7-N-MeFOSE	22.0	21.9	99.7	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	35021.72	1.179567	41501.9	1.179567	
MPFDA	16398.53	8.643184	16871.13	8.633933	
MPFHxA	51508.3	5.96495	54424.38	5.96495	
MPFHxS	3561.07	6.88005	3141.206	6.889317	
MPFNA	23407.08	8.10595	19560.98	8.096684	
MPFOA	47428.06	7.474216	43746.51	7.483483	
MPFOS	10051.64	8.14165	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4649.066	8.1056	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	32941.99	7.4831	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	102581.1	4.384717	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	13612.57	1.177267	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	19853.95	9.494117	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-15	File ID:	QQQ32247.d
Sampled:	11/07/23 10:50	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:39
Solids:	93.38	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3810.294	8.141117	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11475.87	9.119817	11927.36	9.119817	
M7PFUdA-EIS	25789.44	9.096867	35726.57	9.096867	
M6PFDA-EIS	16667.43	8.6428	21282.01	8.633533	
M5PFHxA-EIS	62569.52	5.963767	85202.02	5.963767	
M4PFHpA-EIS	10034.76	6.779183	12251.44	6.788417	
M3PFHxS-EIS	9274.346	6.880533	8440.767	6.889783	
M3PFBS-EIS	11780.9	5.1503	14508.93	5.1503	
M3-HFPO-DA-EIS	36143.05	6.2536	34583.16	6.262866	
M2PFTeDA-EIS	9856.966	10.13805	18947.22	10.15658	
M2-8-2FTS-EIS	31908.49	8.604934	18236.65	8.604934	
M2-6-2FTS-EIS	12562.89	7.41745	7924.992	7.41745	
M2-4-2FTS-EIS	10638.39	5.88805	11320.77	5.8973	
d9-NEtFOSE-EIS	4320.501	10.08538	10175.07	10.10382	
d7-NMeFOSE-EIS	9821.545	9.8369	19156.27	9.846117	
d5-NEtFOSA-EIS	712.3321	10.135	1509.369	10.14422	
d5-N-EtFOSAA-EIS	19961.07	9.077383	22947.22	9.077383	
d3-NMeFOSA-EIS	844.2601	9.877483	1277.464	9.877483	
d3-N-MeFOSAA-EIS	22493.35	8.845417	24748.24	8.845417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID: QQQ32248.d

Sampled: 11/07/23 11:15 Prepared: 11/14/23 13:41 Analyzed: 11/16/23 16:55

Solids: 69.30 Preparation: EPA 1633 Prep Initial/Final: 5.03 g / 5 mL

Batch: BK30911 Sequence: S3K1638 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.254	U
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.287	U
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.287	U
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.262	U
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.287	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.378	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.287	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.287	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.287	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.287	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.287	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.287	U
2355-31-9	N-MeFOSAA	1	0.287	U
2991-50-6	N-EtFOSAA	1	0.287	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.574	U
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.287	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.287	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.277	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.09	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.10	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.15	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.511	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.574	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.574	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.574	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.270	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.08	U
13252-13-6	HFPO-DA (Gen-X)	1	1.15	U
763051-92-9	11CL-PF3OUdS	1	1.08	U
756426-58-1	9CL-PF3ONS	1	1.07	U
919005-14-4	ADONA	1	1.08	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.278	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.275	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.43	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.17	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.17	U
24448-09-7	N-MeFOSE	1	2.87	U
31506-32-8	N-MeFOSA	1	0.287	U
1691-99-2	N-EtFOSE	1	2.87	U
4151-50-2	N-EtFOSA	1	0.287	U

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MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-16	File ID:	QQQ32248.d
Sampled:	11/07/23 11:15	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:55
Solids:	69.30	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.78	2.78	100	25 - 150	
M5PFHxA	2.99	3.29	110	25 - 150	
M4PFHpA	2.99	3.57	119	25 - 150	
M3PFHxS	2.83	3.65	129	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.99	3.28	110	25 - 150	
M6PFDA	1.49	1.64	110	25 - 150	
M7PFUdA	1.49	2.04	137	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.49	1.68	112	25 - 150	
M2PFTeDA	1.49	1.31	87.9	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.0	2.88	24.1	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.86	3.20	112	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.97	5.74	96.0	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.99	2.71	90.6	10 - 150	
d3-N-MeFOSAA	5.97	5.09	85.2	25 - 150	
d5-N-EtFOSAA	5.97	6.13	103	25 - 150	
M2-6:2 FTS	5.68	2.79	49.1	25 - 200	
M2-8:2 FTS	5.74	3.70	64.5	25 - 200	
M9PFNA	1.49	1.59	107	25 - 150	
M2-4:2 FTS	5.61	2.49	44.4	25 - 150	
d-N-MeFOSA	2.99	1.88	63.0	25 - 150	
d-N-EtFOSA	2.99	2.32	77.6	25 - 150	
M3HFPO-DA	12.0	12.7	106	25 - 150	
d9-N-EtFOSE	29.9	45.8	153	25 - 150	*
d7-N-MeFOSE	29.9	54.2	181	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	33722.23	1.179567	41501.9	1.179567	
MPFDA	13915.44	8.643184	16871.13	8.633933	
MPFHxA	50058.41	5.955717	54424.38	5.96495	
MPFHxS	2990.7	6.88005	3141.206	6.889317	
MPFNA	20140.79	8.096666	19560.98	8.096684	
MPFOA	41976.32	7.474216	43746.51	7.483483	
MPFOS	7461.915	8.132383	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4756.353	8.1056	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34704.36	7.473834	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	95379.4	4.375533	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	35105.5	1.177267	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	25416.01	9.503366	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-16	File ID:	QQQ32248.d
Sampled:	11/07/23 11:15	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 16:55
Solids:	69.30	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3144.178	8.13185	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10285.69	9.119817	11927.36	9.119817	
M7PFUdA-EIS	32554.89	9.10615	35726.57	9.096867	
M6PFDA-EIS	16413.29	8.6428	21282.01	8.633533	
M5PFHxA-EIS	69172.77	5.963767	85202.02	5.963767	
M4PFHpA-EIS	10376.79	6.779183	12251.44	6.788417	
M3PFHxS-EIS	8326.668	6.880533	8440.767	6.889783	
M3PFBS-EIS	11828.45	5.1503	14508.93	5.1503	
M3-HFPO-DA-EIS	42458.86	6.2536	34583.16	6.262866	
M2PFTeDA-EIS	11769.83	10.14727	18947.22	10.15658	
M2-8-2FTS-EIS	15958.25	8.604934	18236.65	8.604934	
M2-6-2FTS-EIS	8382.035	7.408183	7924.992	7.41745	
M2-4-2FTS-EIS	11169.53	5.88805	11320.77	5.8973	
d9-NEtFOSE-EIS	5826.788	10.0946	10175.07	10.10382	
d7-NMeFOSE-EIS	13177.87	9.846117	19156.27	9.846117	
d5-NEtFOSA-EIS	999.1918	10.135	1509.369	10.14422	
d5-N-EtFOSAA-EIS	20108.75	9.077383	22947.22	9.077383	
d3-NMeFOSA-EIS	1207.021	9.877483	1277.464	9.877483	
d3-N-MeFOSAA-EIS	21346.85	8.845417	24748.24	8.845417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID: QQQ32249.d

Sampled: 11/07/23 11:30 Prepared: 11/14/23 13:41 Analyzed: 11/16/23 17:11

Solids: 65.25 Preparation: EPA 1633 Prep Initial/Final: 5.02 g / 5 mL

Batch: BK30911 Sequence: S3K1638 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.270	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.305	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.305	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.279	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.305	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.284	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.305	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.305	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.305	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.305	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.305	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.305	U	
2355-31-9	N-MeFOSAA	1	0.305	U	
2991-50-6	N-EtFOSAA	1	0.305	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.611	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.305	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.305	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.295	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.16	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.17	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.22	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.543	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.611	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.611	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.611	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.287	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.14	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.22	U	
763051-92-9	11CL-PF3OUdS	1	1.15	U	
756426-58-1	9CL-PF3ONS	1	1.14	U	
919005-14-4	ADONA	1	1.15	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.296	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.293	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.53	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.63	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.63	U	
24448-09-7	N-MeFOSE	1	3.05	U	
31506-32-8	N-MeFOSA	1	0.305	U	
1691-99-2	N-EtFOSE	1	3.05	U	
4151-50-2	N-EtFOSA	1	0.305	U	

MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-17	File ID:	QQQ32249.d
Sampled:	11/07/23 11:30	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 17:11
Solids:	65.25	Preparation:	EPA 1633 Prep	Initial/Final:	5.02 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.96	2.88	97.4	25 - 150	
M5PFHxA	3.18	3.78	119	25 - 150	
M4PFHpA	3.18	4.06	127	25 - 150	
M3PFHxS	3.01	4.18	139	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.18	3.17	99.5	25 - 150	
M6PFDA	1.59	1.73	109	25 - 150	
M7PFUdA	1.59	2.02	127	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.59	1.73	109	25 - 150	
M2PFTeDA	1.59	1.38	86.8	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.7	13.0	102	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.05	3.37	111	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.36	8.13	128	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.18	2.66	83.7	10 - 150	
d3-N-MeFOSAA	6.36	5.66	89.1	25 - 150	
d5-N-EtFOSAA	6.36	6.41	101	25 - 150	
M2-6:2 FTS	6.05	5.12	84.6	25 - 200	
M2-8:2 FTS	6.11	6.96	114	25 - 200	
M9PFNA	1.59	2.02	127	25 - 150	
M2-4:2 FTS	5.97	3.56	59.6	25 - 150	
d-N-MeFOSA	3.18	1.66	52.2	25 - 150	
d-N-EtFOSA	3.18	1.93	60.7	25 - 150	
M3HFPO-DA	12.7	13.7	108	25 - 150	
d9-N-EtFOSE	31.8	39.5	124	25 - 150	
d7-N-MeFOSE	31.8	44.6	140	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	35098.52	1.179567	41501.9	1.179567	
MPFDA	14879.38	8.652467	16871.13	8.633933	
MPFHxA	47941.86	5.96495	54424.38	5.96495	
MPFHxS	3738.402	6.898567	3141.206	6.889317	
MPFNA	19639.56	8.115233	19560.98	8.096684	
MPFOA	48178.24	7.483483	43746.51	7.483483	
MPFOS	9580.343	8.14165	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5544.598	8.114883	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	36106.63	7.4831	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	121684.3	4.375533	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	155250.1	1.177267	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	26293.66	9.512617	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-17	File ID:	QQQ32249.d
Sampled:	11/07/23 11:30	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 17:11
Solids:	65.25	Preparation:	EPA 1633 Prep	Initial/Final:	5.02 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3991.268	8.1504	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12192.13	9.138383	11927.36	9.119817	
M7PFUdA-EIS	32262.93	9.115417	35726.57	9.096867	
M6PFDA-EIS	17341.72	8.652066	21282.01	8.633533	
M5PFHxA-EIS	71543.27	5.963767	85202.02	5.963767	
M4PFHpA-EIS	10604.7	6.788417	12251.44	6.788417	
M3PFHxS-EIS	11213.31	6.889783	8440.767	6.889783	
M3PFBS-EIS	14407.72	5.1503	14508.93	5.1503	
M3-HFPO-DA-EIS	41149.59	6.262866	34583.16	6.262866	
M2PFTeDA-EIS	12425.02	10.15658	18947.22	10.15658	
M2-8-2FTS-EIS	35300.4	8.6142	18236.65	8.604934	
M2-6-2FTS-EIS	18001.35	7.426717	7924.992	7.41745	
M2-4-2FTS-EIS	18705.98	5.8973	11320.77	5.8973	
d9-NEtFOSE-EIS	6065.596	10.10382	10175.07	10.10382	
d7-NMeFOSE-EIS	13031.63	9.85535	19156.27	9.846117	
d5-NEtFOSA-EIS	981.4313	10.15343	1509.369	10.14422	
d5-N-EtFOSAA-EIS	25380.16	9.0959	22947.22	9.077383	
d3-NMeFOSA-EIS	1283.303	9.886717	1277.464	9.877483	
d3-N-MeFOSAA-EIS	28657.01	8.8547	24748.24	8.845417	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-18	File ID:	QQQ32250.d
Sampled:	11/07/23 11:45	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 17:27
Solids:	78.56	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.222	U
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.251	U
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.251	U
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.229	U
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.251	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.233	U
375-95-1	Perfluorononanoic acid (PFNA)	1	0.251	U
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.251	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.251	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.251	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.251	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.251	U
2355-31-9	N-MeFOSAA	1	0.251	U
2991-50-6	N-EtFOSAA	1	0.251	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.501	U
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.251	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.251	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.242	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.952	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.962	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.00	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.446	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.501	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.501	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.501	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.236	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.940	U
13252-13-6	HFPO-DA (Gen-X)	1	1.00	U
763051-92-9	11CL-PF3OUdS	1	0.947	U
756426-58-1	9CL-PF3ONS	1	0.937	U
919005-14-4	ADONA	1	0.947	U
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.243	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.241	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.25	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.26	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.26	U
24448-09-7	N-MeFOSE	1	2.51	U
31506-32-8	N-MeFOSA	1	0.251	U
1691-99-2	N-EtFOSE	1	2.51	U
4151-50-2	N-EtFOSA	1	0.251	U

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MKP 2/13/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-18	File ID:	QQQ32250.d
Sampled:	11/07/23 11:45	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 17:27
Solids:	78.56	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.43	2.88	118	25 - 150	
M5PFHxA	2.61	3.20	122	25 - 150	
M4PFHpA	2.61	3.36	129	25 - 150	
M3PFHxS	2.47	3.51	142	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.61	2.87	110	25 - 150	
M6PFDA	1.30	1.60	123	25 - 150	
M7PFUdA	1.30	1.70	131	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.30	1.45	111	25 - 150	
M2PFTeDA	1.30	1.12	86.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.5	11.2	107	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.50	2.57	103	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.22	6.99	134	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.61	2.87	110	10 - 150	
d3-N-MeFOSAA	5.22	4.45	85.3	25 - 150	
d5-N-EtFOSAA	5.22	6.10	117	25 - 150	
M2-6:2 FTS	4.96	2.81	56.6	25 - 200	
M2-8:2 FTS	5.01	2.65	53.0	25 - 200	
M9PFNA	1.30	1.40	107	25 - 150	
M2-4:2 FTS	4.90	2.61	53.3	25 - 150	
d-N-MeFOSA	2.61	1.84	70.5	25 - 150	
d-N-EtFOSA	2.61	1.98	75.8	25 - 150	
M3HFPO-DA	10.5	13.1	125	25 - 150	
d9-N-EtFOSE	26.1	29.1	111	25 - 150	
d7-N-MeFOSE	26.1	40.3	154	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	34322.73	1.188733	41501.9	1.179567	
MPFDA	13190.15	8.65245	16871.13	8.633933	
MPFHxA	47132.16	5.9742	54424.38	5.96495	
MPFHxS	2721.002	6.898567	3141.206	6.889317	
MPFNA	18051.01	8.115233	19560.98	8.096684	
MPFOA	41790.44	7.49275	43746.51	7.483483	
MPFOS	6804.238	8.150933	7166.07	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4284.686	8.114883	5151.172	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34592.6	7.492383	36362.75	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	125377.6	4.375533	146171.2	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	159018.3	1.18645	190773.5	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	23844.72	9.494117	35355.95	9.503366	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-18	File ID:	QQQ32250.d
Sampled:	11/07/23 11:45	Prepared:	11/14/23 13:41	Analyzed:	11/16/23 17:27
Solids:	78.56	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30911	Sequence:	S3K1638	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2631.771	8.1504	2991.37	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11358.12	9.1291	11927.36	9.119817	
M7PFUdA-EIS	29475.66	9.10615	35726.57	9.096867	
M6PFDA-EIS	17399.5	8.652066	21282.01	8.633533	
M5PFHxA-EIS	72530.32	5.973	85202.02	5.963767	
M4PFHpA-EIS	10525.24	6.7982	12251.44	6.788417	
M3PFHxS-EIS	8338.572	6.899034	8440.767	6.889783	
M3PFBS-EIS	12750.5	5.1503	14508.93	5.1503	
M3-HFPO-DA-EIS	46884.54	6.262866	34583.16	6.262866	
M2PFTeDA-EIS	10927.77	10.13805	18947.22	10.15658	
M2-8-2FTS-EIS	12000.17	8.6142	18236.65	8.604934	
M2-6-2FTS-EIS	8780.302	7.426717	7924.992	7.41745	
M2-4-2FTS-EIS	12183.78	5.8973	11320.77	5.8973	
d9-NEtFOSE-EIS	3874.335	10.08538	10175.07	10.10382	
d7-NMeFOSE-EIS	10223.5	9.8369	19156.27	9.846117	
d5-NEtFOSA-EIS	873.1347	10.12578	1509.369	10.14422	
d5-N-EtFOSAA-EIS	20903.99	9.08665	22947.22	9.077383	
d3-NMeFOSA-EIS	1236.155	9.86825	1277.464	9.877483	
d3-N-MeFOSAA-EIS	19497.23	8.8547	24748.24	8.845417	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: PEST

METHOD: EPA 8081B

No data validation qualifiers were added

MKP 2/13/2024

DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/5/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID: P600426150.D

Sampled: 11/06/23 10:00 Prepared: 11/12/23 08:00 Analyzed: 11/13/23 20:23

Solids: 90.53 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BK30762 Sequence: S3K1426 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.79	U
72-55-9	4,4'-DDE	5	1.79	U
50-29-3	4,4'-DDT	5	1.79	U
309-00-2	Aldrin	5	1.79	U
319-84-6	alpha-BHC	5	1.79	U
5103-71-9	alpha-Chlordane	5	1.79	U
319-85-7	beta-BHC	5	1.79	U
57-74-9	Chlordane, total	5	35.9	U
319-86-8	delta-BHC	5	1.79	U
60-57-1	Dieldrin	5	1.79	U
959-98-8	Endosulfan I	5	1.79	U
33213-65-9	Endosulfan II	5	1.79	U
1031-07-8	Endosulfan sulfate	5	1.79	U
72-20-8	Endrin	5	1.79	U
7421-93-4	Endrin aldehyde	5	1.79	U
53494-70-5	Endrin ketone	5	1.79	U
58-89-9	gamma-BHC (Lindane)	5	1.79	U
5566-34-7	gamma-Chlordane	5	1.79	U
76-44-8	Heptachlor	5	1.79	U
1024-57-3	Heptachlor epoxide	5	1.79	U
72-43-5	Methoxychlor	5	8.96	U
8001-35-2	Toxaphene	5	90.7	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	72.4	42.5	58.7	30 - 150	
Tetrachloro-m-xylene	72.4	47.8	66.0	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP9 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-02	File ID:	P600426151.D
Sampled:	11/06/23 10:15	Prepared:	11/12/23 08:00	Analyzed:	11/13/23 20:45
Solids:	77.74	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.12	U
72-55-9	4,4'-DDE	5	2.12	U
50-29-3	4,4'-DDT	5	2.12	U
309-00-2	Aldrin	5	2.12	U
319-84-6	alpha-BHC	5	2.12	U
5103-71-9	alpha-Chlordane	5	2.12	U
319-85-7	beta-BHC	5	2.12	U
57-74-9	Chlordane, total	5	42.3	U
319-86-8	delta-BHC	5	2.12	U
60-57-1	Dieldrin	5	2.12	U
959-98-8	Endosulfan I	5	2.12	U
33213-65-9	Endosulfan II	5	2.12	U
1031-07-8	Endosulfan sulfate	5	2.12	U
72-20-8	Endrin	5	2.12	U
7421-93-4	Endrin aldehyde	5	2.12	U
53494-70-5	Endrin ketone	5	2.12	U
58-89-9	gamma-BHC (Lindane)	5	2.12	U
5566-34-7	gamma-Chlordane	5	2.12	U
76-44-8	Heptachlor	5	2.12	U
1024-57-3	Heptachlor epoxide	5	2.12	U
72-43-5	Methoxychlor	5	10.6	U
8001-35-2	Toxaphene	5	107	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	85.5	37.9	44.4	30 - 150	
Tetrachloro-m-xylene	85.5	37.4	43.7	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP9 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-03	File ID:	P600426152.D
Sampled:	11/06/23 10:20	Prepared:	11/12/23 08:00	Analyzed:	11/13/23 21:07
Solids:	62.43	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.61	U
72-55-9	4,4'-DDE	5	2.61	U
50-29-3	4,4'-DDT	5	2.61	U
309-00-2	Aldrin	5	2.61	U
319-84-6	alpha-BHC	5	2.61	U
5103-71-9	alpha-Chlordane	5	2.61	U
319-85-7	beta-BHC	5	2.61	U
57-74-9	Chlordane, total	5	52.2	U
319-86-8	delta-BHC	5	2.61	U
60-57-1	Dieldrin	5	2.61	U
959-98-8	Endosulfan I	5	2.61	U
33213-65-9	Endosulfan II	5	2.61	U
1031-07-8	Endosulfan sulfate	5	2.61	U
72-20-8	Endrin	5	2.61	U
7421-93-4	Endrin aldehyde	5	2.61	U
53494-70-5	Endrin ketone	5	2.61	U
58-89-9	gamma-BHC (Lindane)	5	2.61	U
5566-34-7	gamma-Chlordane	5	2.61	U
76-44-8	Heptachlor	5	2.61	U
1024-57-3	Heptachlor epoxide	5	2.61	U
72-43-5	Methoxychlor	5	13.0	U
8001-35-2	Toxaphene	5	132	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	105	64.6	61.3	30 - 150	
Tetrachloro-m-xylene	105	89.0	84.4	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	P600426153.D
Sampled:	11/06/23 10:35	Prepared:	11/12/23 08:00	Analyzed:	11/13/23 21:29
Solids:	83.70	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.94	U
72-55-9	4,4'-DDE	5	1.94	U
50-29-3	4,4'-DDT	5	1.94	U
309-00-2	Aldrin	5	1.94	U
319-84-6	alpha-BHC	5	1.94	U
5103-71-9	alpha-Chlordane	5	1.94	U
319-85-7	beta-BHC	5	1.94	U
57-74-9	Chlordane, total	5	38.8	U
319-86-8	delta-BHC	5	1.94	U
60-57-1	Dieldrin	5	1.94	U
959-98-8	Endosulfan I	5	1.94	U
33213-65-9	Endosulfan II	5	1.94	U
1031-07-8	Endosulfan sulfate	5	1.94	U
72-20-8	Endrin	5	1.94	U
7421-93-4	Endrin aldehyde	5	1.94	U
53494-70-5	Endrin ketone	5	1.94	U
58-89-9	gamma-BHC (Lindane)	5	1.94	U
5566-34-7	gamma-Chlordane	5	1.94	U
76-44-8	Heptachlor	5	1.94	U
1024-57-3	Heptachlor epoxide	5	1.94	U
72-43-5	Methoxychlor	5	9.70	U
8001-35-2	Toxaphene	5	98.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	78.3	71.0	90.6	30 - 150	
Tetrachloro-m-xylene	78.3	59.6	76.1	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID: P600426156.D

Sampled: 11/06/23 10:45 Prepared: 11/12/23 08:00 Analyzed: 11/13/23 22:34

Solids: 90.78 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BK30762 Sequence: S3K1426 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.79	U
72-55-9	4,4'-DDE	5	1.79	U
50-29-3	4,4'-DDT	5	1.79	U
309-00-2	Aldrin	5	1.79	U
319-84-6	alpha-BHC	5	1.79	U
5103-71-9	alpha-Chlordane	5	1.79	U
319-85-7	beta-BHC	5	1.79	U
57-74-9	Chlordane, total	5	35.8	U
319-86-8	delta-BHC	5	1.79	U
60-57-1	Dieldrin	5	1.79	U
959-98-8	Endosulfan I	5	1.79	U
33213-65-9	Endosulfan II	5	1.79	U
1031-07-8	Endosulfan sulfate	5	1.79	U
72-20-8	Endrin	5	1.79	U
7421-93-4	Endrin aldehyde	5	1.79	U
53494-70-5	Endrin ketone	5	1.79	U
58-89-9	gamma-BHC (Lindane)	5	1.79	U
5566-34-7	gamma-Chlordane	5	1.79	U
76-44-8	Heptachlor	5	1.79	U
1024-57-3	Heptachlor epoxide	5	1.79	U
72-43-5	Methoxychlor	5	8.94	U
8001-35-2	Toxaphene	5	90.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	72.2	30.9	42.7	30 - 150	
Tetrachloro-m-xylene	72.2	32.5	45.0	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP8 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-06	File ID:	P600426157.D
Sampled:	11/06/23 10:50	Prepared:	11/12/23 08:00	Analyzed:	11/13/23 22:56
Solids:	83.00	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.94	U
72-55-9	4,4'-DDE	5	1.94	U
50-29-3	4,4'-DDT	5	1.94	U
309-00-2	Aldrin	5	1.94	U
319-84-6	alpha-BHC	5	1.94	U
5103-71-9	alpha-Chlordane	5	1.94	U
319-85-7	beta-BHC	5	1.94	U
57-74-9	Chlordane, total	5	38.9	U
319-86-8	delta-BHC	5	1.94	U
60-57-1	Dieldrin	5	1.94	U
959-98-8	Endosulfan I	5	1.94	U
33213-65-9	Endosulfan II	5	1.94	U
1031-07-8	Endosulfan sulfate	5	1.94	U
72-20-8	Endrin	5	1.94	U
7421-93-4	Endrin aldehyde	5	1.94	U
53494-70-5	Endrin ketone	5	1.94	U
58-89-9	gamma-BHC (Lindane)	5	1.94	U
5566-34-7	gamma-Chlordane	5	1.94	U
76-44-8	Heptachlor	5	1.94	U
1024-57-3	Heptachlor epoxide	5	1.94	U
72-43-5	Methoxychlor	5	9.71	U
8001-35-2	Toxaphene	5	98.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	78.5	48.8	62.2	30 - 150	
Tetrachloro-m-xylene	78.5	45.0	57.3	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP8 (14-16ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-07	File ID:	P600426158.D
Sampled:	11/06/23 11:00	Prepared:	11/12/23 08:00	Analyzed:	11/13/23 23:18
Solids:	75.95	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.16	U
72-55-9	4,4'-DDE	5	2.16	U
50-29-3	4,4'-DDT	5	2.16	U
309-00-2	Aldrin	5	2.16	U
319-84-6	alpha-BHC	5	2.16	U
5103-71-9	alpha-Chlordane	5	2.16	U
319-85-7	beta-BHC	5	2.16	U
57-74-9	Chlordane, total	5	43.2	U
319-86-8	delta-BHC	5	2.16	U
60-57-1	Dieldrin	5	2.16	U
959-98-8	Endosulfan I	5	2.16	U
33213-65-9	Endosulfan II	5	2.16	U
1031-07-8	Endosulfan sulfate	5	2.16	U
72-20-8	Endrin	5	2.16	U
7421-93-4	Endrin aldehyde	5	2.16	U
53494-70-5	Endrin ketone	5	2.16	U
58-89-9	gamma-BHC (Lindane)	5	2.16	U
5566-34-7	gamma-Chlordane	5	2.16	U
76-44-8	Heptachlor	5	2.16	U
1024-57-3	Heptachlor epoxide	5	2.16	U
72-43-5	Methoxychlor	5	10.8	U
8001-35-2	Toxaphene	5	109	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	87.2	72.0	82.5	30 - 150	
Tetrachloro-m-xylene	87.2	81.1	93.0	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-08	File ID:	P600426159.D
Sampled:	11/06/23 11:10	Prepared:	11/12/23 08:00	Analyzed:	11/13/23 23:40
Solids:	79.97	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.02	U
72-55-9	4,4'-DDE	5	2.02	U
50-29-3	4,4'-DDT	5	2.02	U
309-00-2	Aldrin	5	2.02	U
319-84-6	alpha-BHC	5	2.02	U
5103-71-9	alpha-Chlordane	5	2.02	U
319-85-7	beta-BHC	5	2.02	U
57-74-9	Chlordane, total	5	40.3	U
319-86-8	delta-BHC	5	2.02	U
60-57-1	Dieldrin	5	2.02	U
959-98-8	Endosulfan I	5	2.02	U
33213-65-9	Endosulfan II	5	2.02	U
1031-07-8	Endosulfan sulfate	5	2.02	U
72-20-8	Endrin	5	2.02	U
7421-93-4	Endrin aldehyde	5	2.02	U
53494-70-5	Endrin ketone	5	2.02	U
58-89-9	gamma-BHC (Lindane)	5	2.02	U
5566-34-7	gamma-Chlordane	5	2.02	U
76-44-8	Heptachlor	5	2.02	U
1024-57-3	Heptachlor epoxide	5	2.02	U
72-43-5	Methoxychlor	5	10.1	U
8001-35-2	Toxaphene	5	102	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	81.5	70.0	85.9	30 - 150	
Tetrachloro-m-xylene	81.5	57.5	70.6	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: P600426160.D

Sampled: 11/06/23 13:15 Prepared: 11/12/23 08:00 Analyzed: 11/14/23 00:02

Solids: 90.97 Preparation: EPA 3550C Initial/Final: 30.4 g / 10 mL

Batch: BK30762 Sequence: S3K1426 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.79	U
72-55-9	4,4'-DDE	5	1.79	U
50-29-3	4,4'-DDT	5	1.79	U
309-00-2	Aldrin	5	1.79	U
319-84-6	alpha-BHC	5	1.79	U
5103-71-9	alpha-Chlordane	5	1.79	U
319-85-7	beta-BHC	5	1.79	U
57-74-9	Chlordane, total	5	35.8	U
319-86-8	delta-BHC	5	1.79	U
60-57-1	Dieldrin	5	1.79	U
959-98-8	Endosulfan I	5	1.79	U
33213-65-9	Endosulfan II	5	1.79	U
1031-07-8	Endosulfan sulfate	5	1.79	U
72-20-8	Endrin	5	1.79	U
7421-93-4	Endrin aldehyde	5	1.79	U
53494-70-5	Endrin ketone	5	1.79	U
58-89-9	gamma-BHC (Lindane)	5	1.79	U
5566-34-7	gamma-Chlordane	5	1.79	U
76-44-8	Heptachlor	5	1.79	U
1024-57-3	Heptachlor epoxide	5	1.79	U
72-43-5	Methoxychlor	5	8.95	U
8001-35-2	Toxaphene	5	90.6	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	72.3	36.2	50.1	30 - 150	
Tetrachloro-m-xylene	72.3	35.7	49.3	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID: P600426161.D

Sampled: 11/06/23 14:00 Prepared: 11/12/23 08:00 Analyzed: 11/14/23 00:24

Solids: 79.53 Preparation: EPA 3550C Initial/Final: 30.5 g / 10 mL

Batch: BK30762 Sequence: S3K1426 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.04	U
72-55-9	4,4'-DDE	5	2.04	U
50-29-3	4,4'-DDT	5	2.04	U
309-00-2	Aldrin	5	2.04	U
319-84-6	alpha-BHC	5	2.04	U
5103-71-9	alpha-Chlordane	5	2.04	U
319-85-7	beta-BHC	5	2.04	U
57-74-9	Chlordane, total	5	40.8	U
319-86-8	delta-BHC	5	2.04	U
60-57-1	Dieldrin	5	2.04	U
959-98-8	Endosulfan I	5	2.04	U
33213-65-9	Endosulfan II	5	2.04	U
1031-07-8	Endosulfan sulfate	5	2.04	U
72-20-8	Endrin	5	2.04	U
7421-93-4	Endrin aldehyde	5	2.04	U
53494-70-5	Endrin ketone	5	2.04	U
58-89-9	gamma-BHC (Lindane)	5	2.04	U
5566-34-7	gamma-Chlordane	5	2.04	U
76-44-8	Heptachlor	5	2.04	U
1024-57-3	Heptachlor epoxide	5	2.04	U
72-43-5	Methoxychlor	5	10.2	U
8001-35-2	Toxaphene	5	103	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	82.5	63.7	77.3	30 - 150	
Tetrachloro-m-xylene	82.5	60.0	72.7	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13	File ID:	P600426162.D
Sampled:	11/06/23 14:20	Prepared:	11/12/23 08:00	Analyzed:	11/14/23 00:46
Solids:	80.33	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.00	U
72-55-9	4,4'-DDE	5	2.00	U
50-29-3	4,4'-DDT	5	2.00	U
309-00-2	Aldrin	5	2.00	U
319-84-6	alpha-BHC	5	2.00	U
5103-71-9	alpha-Chlordane	5	2.00	U
319-85-7	beta-BHC	5	2.00	U
57-74-9	Chlordane, total	5	40.0	U
319-86-8	delta-BHC	5	2.00	U
60-57-1	Dieldrin	5	2.00	U
959-98-8	Endosulfan I	5	2.00	U
33213-65-9	Endosulfan II	5	2.00	U
1031-07-8	Endosulfan sulfate	5	2.00	U
72-20-8	Endrin	5	2.00	U
7421-93-4	Endrin aldehyde	5	2.00	U
53494-70-5	Endrin ketone	5	2.00	U
58-89-9	gamma-BHC (Lindane)	5	2.00	U
5566-34-7	gamma-Chlordane	5	2.00	U
76-44-8	Heptachlor	5	2.00	U
1024-57-3	Heptachlor epoxide	5	2.00	U
72-43-5	Methoxychlor	5	10.0	U
8001-35-2	Toxaphene	5	101	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	80.8	72.9	90.2	30 - 150	
Tetrachloro-m-xylene	80.8	72.6	89.8	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP10 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-14	File ID:	P600426163.D
Sampled:	11/06/23 14:30	Prepared:	11/12/23 08:00	Analyzed:	11/14/23 01:08
Solids:	77.29	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK30762	Sequence:	S3K1426	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.13	U
72-55-9	4,4'-DDE	5	2.13	U
50-29-3	4,4'-DDT	5	2.13	U
309-00-2	Aldrin	5	2.13	U
319-84-6	alpha-BHC	5	2.13	U
5103-71-9	alpha-Chlordane	5	2.13	U
319-85-7	beta-BHC	5	2.13	U
57-74-9	Chlordane, total	5	42.6	U
319-86-8	delta-BHC	5	2.13	U
60-57-1	Dieldrin	5	2.13	U
959-98-8	Endosulfan I	5	2.13	U
33213-65-9	Endosulfan II	5	2.13	U
1031-07-8	Endosulfan sulfate	5	2.13	U
72-20-8	Endrin	5	2.13	U
7421-93-4	Endrin aldehyde	5	2.13	U
53494-70-5	Endrin ketone	5	2.13	U
58-89-9	gamma-BHC (Lindane)	5	2.13	U
5566-34-7	gamma-Chlordane	5	2.13	U
76-44-8	Heptachlor	5	2.13	U
1024-57-3	Heptachlor epoxide	5	2.13	U
72-43-5	Methoxychlor	5	10.6	U
8001-35-2	Toxaphene	5	108	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	86.0	75.5	87.8	30 - 150	
Tetrachloro-m-xylene	86.0	63.3	73.6	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID: P20513891.d

Sampled: 11/07/23 10:50 Prepared: 11/13/23 08:00 Analyzed: 11/15/23 12:19

Solids: 93.38 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK30763 Sequence: S3K1551 Calibration: SJ30025 Instrument: GC_5890_I

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.76	U
72-55-9	4,4'-DDE	5	1.76	U
50-29-3	4,4'-DDT	5	1.99	D
309-00-2	Aldrin	5	1.76	U
319-84-6	alpha-BHC	5	1.76	U
5103-71-9	alpha-Chlordane	5	1.76	U
319-85-7	beta-BHC	5	1.76	U
57-74-9	Chlordane, total	5	35.2	U
319-86-8	delta-BHC	5	1.76	U
60-57-1	Dieldrin	5	1.76	U
959-98-8	Endosulfan I	5	1.76	U
33213-65-9	Endosulfan II	5	1.76	U
1031-07-8	Endosulfan sulfate	5	1.76	U
72-20-8	Endrin	5	1.76	U
7421-93-4	Endrin aldehyde	5	1.76	U
53494-70-5	Endrin ketone	5	1.76	U
58-89-9	gamma-BHC (Lindane)	5	1.76	U
5566-34-7	gamma-Chlordane	5	2.13	D
76-44-8	Heptachlor	5	1.76	U
1024-57-3	Heptachlor epoxide	5	1.76	U
72-43-5	Methoxychlor	5	8.81	U
8001-35-2	Toxaphene	5	89.1	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	71.2	35.0	49.2	30 - 150	
Tetrachloro-m-xylene	71.2	54.7	76.8	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP1 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-16	File ID:	P20513892.d
Sampled:	11/07/23 11:15	Prepared:	11/13/23 08:00	Analyzed:	11/15/23 12:36
Solids:	69.30	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BK30763	Sequence:	S3K1551	Calibration:	SJ30025
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.36	U
72-55-9	4,4'-DDE	5	2.36	U
50-29-3	4,4'-DDT	5	2.36	U
309-00-2	Aldrin	5	2.36	U
319-84-6	alpha-BHC	5	2.36	U
5103-71-9	alpha-Chlordane	5	2.36	U
319-85-7	beta-BHC	5	2.36	U
57-74-9	Chlordane, total	5	47.1	U
319-86-8	delta-BHC	5	2.36	U
60-57-1	Dieldrin	5	2.36	U
959-98-8	Endosulfan I	5	2.36	U
33213-65-9	Endosulfan II	5	2.36	U
1031-07-8	Endosulfan sulfate	5	2.36	U
72-20-8	Endrin	5	2.36	U
7421-93-4	Endrin aldehyde	5	2.36	U
53494-70-5	Endrin ketone	5	2.36	U
58-89-9	gamma-BHC (Lindane)	5	2.36	U
5566-34-7	gamma-Chlordane	5	2.36	U
76-44-8	Heptachlor	5	2.36	U
1024-57-3	Heptachlor epoxide	5	2.36	U
72-43-5	Methoxychlor	5	11.8	U
8001-35-2	Toxaphene	5	119	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	95.2	57.1	60.0	30 - 150	
Tetrachloro-m-xylene	95.2	89.7	94.2	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP1 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-17	File ID:	P20513960.d
Sampled:	11/07/23 11:30	Prepared:	11/13/23 08:00	Analyzed:	11/16/23 09:56
Solids:	65.25	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30763	Sequence:	S3K1647	Calibration:	SJ30025
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.51	U
72-55-9	4,4'-DDE	5	2.51	U
50-29-3	4,4'-DDT	5	2.51	U
309-00-2	Aldrin	5	2.51	U
319-84-6	alpha-BHC	5	2.51	U
5103-71-9	alpha-Chlordane	5	2.51	U
319-85-7	beta-BHC	5	2.51	U
57-74-9	Chlordane, total	5	50.2	U
319-86-8	delta-BHC	5	2.51	U
60-57-1	Dieldrin	5	2.51	U
959-98-8	Endosulfan I	5	2.51	U
33213-65-9	Endosulfan II	5	2.51	U
1031-07-8	Endosulfan sulfate	5	2.51	U
72-20-8	Endrin	5	2.51	U
7421-93-4	Endrin aldehyde	5	2.51	U
53494-70-5	Endrin ketone	5	2.51	U
58-89-9	gamma-BHC (Lindane)	5	2.51	U
5566-34-7	gamma-Chlordane	5	2.51	U
76-44-8	Heptachlor	5	2.51	U
1024-57-3	Heptachlor epoxide	5	2.51	U
72-43-5	Methoxychlor	5	12.6	U
8001-35-2	Toxaphene	5	127	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	102	117	115	30 - 150	
Tetrachloro-m-xylene	102	85.6	84.3	30 - 150	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-18	File ID:	P20513961.d
Sampled:	11/07/23 11:45	Prepared:	11/13/23 08:00	Analyzed:	11/16/23 10:13
Solids:	78.56	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30763	Sequence:	S3K1647	Calibration:	SJ30025
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.09	U
72-55-9	4,4'-DDE	5	2.09	U
50-29-3	4,4'-DDT	5	2.09	U
309-00-2	Aldrin	5	2.09	U
319-84-6	alpha-BHC	5	2.09	U
5103-71-9	alpha-Chlordane	5	2.09	U
319-85-7	beta-BHC	5	2.09	U
57-74-9	Chlordane, total	5	41.7	U
319-86-8	delta-BHC	5	2.09	U
60-57-1	Dieldrin	5	2.09	U
959-98-8	Endosulfan I	5	2.09	U
33213-65-9	Endosulfan II	5	2.09	U
1031-07-8	Endosulfan sulfate	5	2.09	U
72-20-8	Endrin	5	2.09	U
7421-93-4	Endrin aldehyde	5	2.09	U
53494-70-5	Endrin ketone	5	2.09	U
58-89-9	gamma-BHC (Lindane)	5	2.09	U
5566-34-7	gamma-Chlordane	5	2.09	U
76-44-8	Heptachlor	5	2.09	U
1024-57-3	Heptachlor epoxide	5	2.09	U
72-43-5	Methoxychlor	5	10.4	U
8001-35-2	Toxaphene	5	106	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	84.3	97.2	115	30 - 150	
Tetrachloro-m-xylene	84.3	72.2	85.7	30 - 150	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: ARO

METHOD: EPA 8082A

No data validation qualifiers were added

MKP 2/13/2024

DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/5/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP9 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-01	File ID:	P1133261.D
Sampled:	11/06/23 10:00	Prepared:	11/14/23 08:38	Analyzed:	11/14/23 23:57
Solids:	90.53	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0183	U
11104-28-2	Aroclor 1221	1	0.0183	U
11141-16-5	Aroclor 1232	1	0.0183	U
53469-21-9	Aroclor 1242	1	0.0183	U
12672-29-6	Aroclor 1248	1	0.0183	U
11097-69-1	Aroclor 1254	1	0.0183	U
11096-82-5	Aroclor 1260	1	0.0183	U
1336-36-3	Total PCBs	1	0.0183	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0734	0.0514	70.0	30 - 140	
Decachlorobiphenyl	0.0734	0.0587	80.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP9 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-02	File ID:	P1133262.D
Sampled:	11/06/23 10:15	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 00:10
Solids:	77.74	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0214	U
11104-28-2	Aroclor 1221	1	0.0214	U
11141-16-5	Aroclor 1232	1	0.0214	U
53469-21-9	Aroclor 1242	1	0.0214	U
12672-29-6	Aroclor 1248	1	0.0214	U
11097-69-1	Aroclor 1254	1	0.0214	U
11096-82-5	Aroclor 1260	1	0.0214	U
1336-36-3	Total PCBs	1	0.0214	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0855	0.0590	69.0	30 - 140	
Decachlorobiphenyl	0.0855	0.0718	84.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP9 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-03	File ID:	P1133263.D
Sampled:	11/06/23 10:20	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 00:24
Solids:	62.43	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0265	U
11104-28-2	Aroclor 1221	1	0.0265	U
11141-16-5	Aroclor 1232	1	0.0265	U
53469-21-9	Aroclor 1242	1	0.0265	U
12672-29-6	Aroclor 1248	1	0.0265	U
11097-69-1	Aroclor 1254	1	0.0265	U
11096-82-5	Aroclor 1260	1	0.0265	U
1336-36-3	Total PCBs	1	0.0265	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.106	0.0780	73.5	30 - 140	
Decachlorobiphenyl	0.106	0.0944	89.0	30 - 140	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP9 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-04	File ID:	P1133264.D
Sampled:	11/06/23 10:35	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 00:38
Solids:	83.70	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0194	U
11104-28-2	Aroclor 1221	1	0.0194	U
11141-16-5	Aroclor 1232	1	0.0194	U
53469-21-9	Aroclor 1242	1	0.0194	U
12672-29-6	Aroclor 1248	1	0.0194	U
11097-69-1	Aroclor 1254	1	0.0194	U
11096-82-5	Aroclor 1260	1	0.0194	U
1336-36-3	Total PCBs	1	0.0194	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0776	0.0582	75.0	30 - 140	
Decachlorobiphenyl	0.0776	0.0706	91.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP8 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-05	File ID:	P1133265.D
Sampled:	11/06/23 10:45	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 00:52
Solids:	90.78	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0183	U
11104-28-2	Aroclor 1221	1	0.0183	U
11141-16-5	Aroclor 1232	1	0.0183	U
53469-21-9	Aroclor 1242	1	0.0183	U
12672-29-6	Aroclor 1248	1	0.0183	U
11097-69-1	Aroclor 1254	1	0.0183	U
11096-82-5	Aroclor 1260	1	0.0183	U
1336-36-3	Total PCBs	1	0.0183	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0732	0.0399	54.5	30 - 140	
Decachlorobiphenyl	0.0732	0.0446	61.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP8 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-06	File ID:	P1133266.D
Sampled:	11/06/23 10:50	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 01:05
Solids:	83.00	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0199	U
11104-28-2	Aroclor 1221	1	0.0199	U
11141-16-5	Aroclor 1232	1	0.0199	U
53469-21-9	Aroclor 1242	1	0.0199	U
12672-29-6	Aroclor 1248	1	0.0199	U
11097-69-1	Aroclor 1254	1	0.0199	U
11096-82-5	Aroclor 1260	1	0.0199	U
1336-36-3	Total PCBs	1	0.0199	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0798	0.0535	67.0	30 - 140	
Decachlorobiphenyl	0.0798	0.0570	71.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP8 (14-16ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-07	File ID:	P1133267.D
Sampled:	11/06/23 11:00	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 01:19
Solids:	75.95	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0218	U
11104-28-2	Aroclor 1221	1	0.0218	U
11141-16-5	Aroclor 1232	1	0.0218	U
53469-21-9	Aroclor 1242	1	0.0218	U
12672-29-6	Aroclor 1248	1	0.0218	U
11097-69-1	Aroclor 1254	1	0.0218	U
11096-82-5	Aroclor 1260	1	0.0218	U
1336-36-3	Total PCBs	1	0.0218	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0872	0.0589	67.5	30 - 140	
Decachlorobiphenyl	0.0872	0.0667	76.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-08	File ID:	P1133268.D
Sampled:	11/06/23 11:10	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 01:33
Solids:	79.97	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0206	U
11104-28-2	Aroclor 1221	1	0.0206	U
11141-16-5	Aroclor 1232	1	0.0206	U
53469-21-9	Aroclor 1242	1	0.0206	U
12672-29-6	Aroclor 1248	1	0.0206	U
11097-69-1	Aroclor 1254	1	0.0206	U
11096-82-5	Aroclor 1260	1	0.0206	U
1336-36-3	Total PCBs	1	0.0206	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0825	0.0615	74.5	30 - 140	
Decachlorobiphenyl	0.0825	0.0669	81.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP10 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-11	File ID:	P1133269.D
Sampled:	11/06/23 13:15	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 01:46
Solids:	90.97	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0726	0.0403	55.5	30 - 140	
Decachlorobiphenyl	0.0726	0.0454	62.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP10 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-12	File ID:	P1133270.D
Sampled:	11/06/23 14:00	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 02:00
Solids:	79.53	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0207	U
11104-28-2	Aroclor 1221	1	0.0207	U
11141-16-5	Aroclor 1232	1	0.0207	U
53469-21-9	Aroclor 1242	1	0.0207	U
12672-29-6	Aroclor 1248	1	0.0207	U
11097-69-1	Aroclor 1254	1	0.0207	U
11096-82-5	Aroclor 1260	1	0.0207	U
1336-36-3	Total PCBs	1	0.0207	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0827	0.0563	68.0	30 - 140	
Decachlorobiphenyl	0.0827	0.0649	78.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP10 (18-22ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-13	File ID:	P1133273.D
Sampled:	11/06/23 14:20	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 02:41
Solids:	80.33	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0204	U
11104-28-2	Aroclor 1221	1	0.0204	U
11141-16-5	Aroclor 1232	1	0.0204	U
53469-21-9	Aroclor 1242	1	0.0204	U
12672-29-6	Aroclor 1248	1	0.0204	U
11097-69-1	Aroclor 1254	1	0.0204	U
11096-82-5	Aroclor 1260	1	0.0204	U
1336-36-3	Total PCBs	1	0.0204	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0816	0.0596	73.0	30 - 140	
Decachlorobiphenyl	0.0816	0.0714	87.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP10 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-14	File ID:	P1133274.D
Sampled:	11/06/23 14:30	Prepared:	11/14/23 08:38	Analyzed:	11/15/23 02:55
Solids:	77.29	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 10 mL
Batch:	BK30847	Sequence:	S3K1445	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0213	U
11104-28-2	Aroclor 1221	1	0.0213	U
11141-16-5	Aroclor 1232	1	0.0213	U
53469-21-9	Aroclor 1242	1	0.0213	U
12672-29-6	Aroclor 1248	1	0.0213	U
11097-69-1	Aroclor 1254	1	0.0213	U
11096-82-5	Aroclor 1260	1	0.0213	U
1336-36-3	Total PCBs	1	0.0213	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0851	0.0647	76.0	30 - 140	
Decachlorobiphenyl	0.0851	0.0749	88.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP1 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-15	File ID:	P1133360.D
Sampled:	11/07/23 10:50	Prepared:	11/13/23 08:00	Analyzed:	11/15/23 23:45
Solids:	93.38	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK30763	Sequence:	S3K1553	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0178	U
11104-28-2	Aroclor 1221	1	0.0178	U
11141-16-5	Aroclor 1232	1	0.0178	U
53469-21-9	Aroclor 1242	1	0.0178	U
12672-29-6	Aroclor 1248	1	0.0178	U
11097-69-1	Aroclor 1254	1	0.0178	U
11096-82-5	Aroclor 1260	1	0.0178	U
1336-36-3	Total PCBs	1	0.0178	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0712	0.0463	65.0	30 - 140	
Decachlorobiphenyl	0.0712	0.0498	70.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP1 (10-12.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-16	File ID:	P1133361.D
Sampled:	11/07/23 11:15	Prepared:	11/13/23 08:00	Analyzed:	11/15/23 23:59
Solids:	69.30	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BK30763	Sequence:	S3K1553	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0238	U
11104-28-2	Aroclor 1221	1	0.0238	U
11141-16-5	Aroclor 1232	1	0.0238	U
53469-21-9	Aroclor 1242	1	0.0238	U
12672-29-6	Aroclor 1248	1	0.0238	U
11097-69-1	Aroclor 1254	1	0.0238	U
11096-82-5	Aroclor 1260	1	0.0238	U
1336-36-3	Total PCBs	1	0.0238	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0952	0.0657	69.0	30 - 140	
Decachlorobiphenyl	0.0952	0.0752	79.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP1 (12.5-15ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-17	File ID:	P1133362.D
Sampled:	11/07/23 11:30	Prepared:	11/13/23 08:00	Analyzed:	11/16/23 00:12
Solids:	65.25	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30763	Sequence:	S3K1553	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0254	U
11104-28-2	Aroclor 1221	1	0.0254	U
11141-16-5	Aroclor 1232	1	0.0254	U
53469-21-9	Aroclor 1242	1	0.0254	U
12672-29-6	Aroclor 1248	1	0.0254	U
11097-69-1	Aroclor 1254	1	0.0254	U
11096-82-5	Aroclor 1260	1	0.0254	U
1336-36-3	Total PCBs	1	0.0254	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.102	0.0695	68.5	30 - 140	
Decachlorobiphenyl	0.102	0.0868	85.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Soil	Laboratory ID:	23K0580-18	File ID:	P1133363.D
Sampled:	11/07/23 11:45	Prepared:	11/13/23 08:00	Analyzed:	11/16/23 00:26
Solids:	78.56	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK30763	Sequence:	S3K1553	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0211	U
11104-28-2	Aroclor 1221	1	0.0211	U
11141-16-5	Aroclor 1232	1	0.0211	U
53469-21-9	Aroclor 1242	1	0.0211	U
12672-29-6	Aroclor 1248	1	0.0211	U
11097-69-1	Aroclor 1254	1	0.0211	U
11096-82-5	Aroclor 1260	1	0.0211	U
1336-36-3	Total PCBs	1	0.0211	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0843	0.0649	77.0	30 - 140	
Decachlorobiphenyl	0.0843	0.0738	87.5	30 - 140	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: METALS

METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/3/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID: QBICP2-111523ARE_1-041

Sampled: 11/06/23 10:00 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:29

Solids: 90.53 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	8830	1		EPA 6010D	
7440-36-0	Antimony	2.30	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	4.14	1		EPA 6010D	
7440-39-3	Barium	96.4	1		EPA 6010D	J+
7440-41-7	Beryllium	0.046	1	U	EPA 6010D	
7440-43-9	Cadmium	0.276	1	U	EPA 6010D	
7440-70-2	Calcium	30900	1	B	EPA 6010D	
7440-47-3	Chromium	15.3	1		EPA 6010D	
7440-48-4	Cobalt	6.10	1		EPA 6010D	
7440-50-8	Copper	51.5	1		EPA 6010D	
7439-89-6	Iron	12800	1		EPA 6010D	
7439-92-1	Lead	143	1	B	EPA 6010D	
7439-95-4	Magnesium	7180	1		EPA 6010D	
7439-96-5	Manganese	229	1		EPA 6010D	
7440-02-0	Nickel	14.1	1		EPA 6010D	
7440-09-7	Potassium	1890	1		EPA 6010D	
7782-49-2	Selenium	2.67	1		EPA 6010D	
7440-22-4	Silver	0.464	1	U	EPA 6010D	
7440-23-5	Sodium	739	1		EPA 6010D	J+
7440-28-0	Thallium	2.30	1	U	EPA 6010D	
7440-62-2	Vanadium	20.5	1		EPA 6010D	
7440-66-6	Zinc	36.3	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID: QBICP2-111523ARE_1-042

Sampled: 11/06/23 10:15 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:32

Solids: 77.74 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	22900	1		EPA 6010D	
7440-36-0	Antimony	2.68	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	5.60	1		EPA 6010D	
7440-39-3	Barium	86.9	1		EPA 6010D	J+
7440-41-7	Beryllium	0.054	1	U	EPA 6010D	
7440-43-9	Cadmium	0.322	1	U	EPA 6010D	
7440-70-2	Calcium	3300	1	B	EPA 6010D	
7440-47-3	Chromium	26.6	1		EPA 6010D	
7440-48-4	Cobalt	8.05	1		EPA 6010D	
7440-50-8	Copper	16.0	1		EPA 6010D	
7439-89-6	Iron	20600	1		EPA 6010D	
7439-92-1	Lead	26.3	1	B	EPA 6010D	
7439-95-4	Magnesium	3480	1		EPA 6010D	
7439-96-5	Manganese	313	1		EPA 6010D	
7440-02-0	Nickel	16.8	1		EPA 6010D	
7440-09-7	Potassium	1420	1		EPA 6010D	
7782-49-2	Selenium	6.85	1		EPA 6010D	
7440-22-4	Silver	0.540	1	U	EPA 6010D	
7440-23-5	Sodium	53.6	1	U	EPA 6010D	
7440-28-0	Thallium	2.68	1	U	EPA 6010D	
7440-62-2	Vanadium	35.4	1		EPA 6010D	
7440-66-6	Zinc	65.9	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID: QBICP2-111523ARE_1-045

Sampled: 11/06/23 10:20 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:43

Solids: 62.43 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	11500	1		EPA 6010D	
7440-36-0	Antimony	3.34	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	15.9	1		EPA 6010D	
7440-39-3	Barium	232	1		EPA 6010D	J+
7440-41-7	Beryllium	0.067	1	U	EPA 6010D	
7440-43-9	Cadmium	0.400	1	U	EPA 6010D	
7440-70-2	Calcium	30400	1	B	EPA 6010D	
7440-47-3	Chromium	20.3	1		EPA 6010D	
7440-48-4	Cobalt	9.90	1		EPA 6010D	
7440-50-8	Copper	68.7	1		EPA 6010D	
7439-89-6	Iron	16900	1		EPA 6010D	
7439-92-1	Lead	432	1	B	EPA 6010D	
7439-95-4	Magnesium	2570	1		EPA 6010D	
7439-96-5	Manganese	268	1		EPA 6010D	
7440-02-0	Nickel	19.7	1		EPA 6010D	
7440-09-7	Potassium	2060	1		EPA 6010D	
7782-49-2	Selenium	6.65	1		EPA 6010D	
7440-22-4	Silver	0.673	1	U	EPA 6010D	
7440-23-5	Sodium	2370	1		EPA 6010D	J+
7440-28-0	Thallium	3.34	1	U	EPA 6010D	
7440-62-2	Vanadium	33.6	1		EPA 6010D	
7440-66-6	Zinc	45.0	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-04 File ID: QBICP2-111523ARE_1-046

Sampled: 11/06/23 10:35 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:46

Solids: 83.70 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	11800	1		EPA 6010D	
7440-36-0	Antimony	2.49	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	3.24	1		EPA 6010D	
7440-39-3	Barium	48.1	1		EPA 6010D	J+
7440-41-7	Beryllium	0.050	1	U	EPA 6010D	
7440-43-9	Cadmium	0.299	1	U	EPA 6010D	
7440-70-2	Calcium	1800	1	B	EPA 6010D	
7440-47-3	Chromium	22.2	1		EPA 6010D	
7440-48-4	Cobalt	6.26	1		EPA 6010D	
7440-50-8	Copper	22.8	1		EPA 6010D	
7439-89-6	Iron	14700	1		EPA 6010D	
7439-92-1	Lead	7.57	1	B	EPA 6010D	J
7439-95-4	Magnesium	6730	1		EPA 6010D	
7439-96-5	Manganese	95.3	1		EPA 6010D	
7440-02-0	Nickel	14.9	1		EPA 6010D	
7440-09-7	Potassium	1690	1		EPA 6010D	
7782-49-2	Selenium	4.24	1		EPA 6010D	
7440-22-4	Silver	0.502	1	U	EPA 6010D	
7440-23-5	Sodium	80.2	1		EPA 6010D	J+
7440-28-0	Thallium	2.49	1	U	EPA 6010D	
7440-62-2	Vanadium	26.5	1		EPA 6010D	
7440-66-6	Zinc	55.6	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID: QBICP2-111523ARE_1-047

Sampled: 11/06/23 10:45 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:49

Solids: 90.78 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	6120	1		EPA 6010D	
7440-36-0	Antimony	2.29	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	1.90	1		EPA 6010D	
7440-39-3	Barium	57.4	1		EPA 6010D	J+
7440-41-7	Beryllium	0.046	1	U	EPA 6010D	
7440-43-9	Cadmium	0.275	1	U	EPA 6010D	
7440-70-2	Calcium	38000	1	B	EPA 6010D	
7440-47-3	Chromium	12.6	1		EPA 6010D	
7440-48-4	Cobalt	5.03	1		EPA 6010D	
7440-50-8	Copper	21.9	1		EPA 6010D	
7439-89-6	Iron	11000	1		EPA 6010D	
7439-92-1	Lead	59.1	1	B	EPA 6010D	
7439-95-4	Magnesium	19600	1		EPA 6010D	
7439-96-5	Manganese	199	1		EPA 6010D	
7440-02-0	Nickel	11.8	1		EPA 6010D	
7440-09-7	Potassium	1820	1		EPA 6010D	
7782-49-2	Selenium	2.29	1	U	EPA 6010D	
7440-22-4	Silver	0.463	1	U	EPA 6010D	
7440-23-5	Sodium	122	1		EPA 6010D	J+
7440-28-0	Thallium	2.29	1	U	EPA 6010D	
7440-62-2	Vanadium	20.6	1		EPA 6010D	
7440-66-6	Zinc	30.3	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID: QBICP2-111523ARE_1-048

Sampled: 11/06/23 10:50 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:52

Solids: 83.00 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	12200	1		EPA 6010D	
7440-36-0	Antimony	2.51	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	6.30	1		EPA 6010D	
7440-39-3	Barium	135	1		EPA 6010D	J+
7440-41-7	Beryllium	0.051	1	U	EPA 6010D	
7440-43-9	Cadmium	0.301	1	U	EPA 6010D	
7440-70-2	Calcium	11600	1	B	EPA 6010D	
7440-47-3	Chromium	24.4	1		EPA 6010D	
7440-48-4	Cobalt	9.38	1		EPA 6010D	
7440-50-8	Copper	52.5	1		EPA 6010D	
7439-89-6	Iron	19900	1		EPA 6010D	
7439-92-1	Lead	170	1	B	EPA 6010D	
7439-95-4	Magnesium	6350	1		EPA 6010D	
7439-96-5	Manganese	299	1		EPA 6010D	
7440-02-0	Nickel	18.8	1		EPA 6010D	
7440-09-7	Potassium	3960	1		EPA 6010D	
7782-49-2	Selenium	5.21	1		EPA 6010D	
7440-22-4	Silver	0.506	1	U	EPA 6010D	
7440-23-5	Sodium	1000	1		EPA 6010D	J+
7440-28-0	Thallium	2.51	1	U	EPA 6010D	
7440-62-2	Vanadium	33.9	1		EPA 6010D	
7440-66-6	Zinc	58.2	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID: QBICP2-111523ARE_1-049

Sampled: 11/06/23 11:00 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:54

Solids: 75.95 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	6720	1		EPA 6010D	
7440-36-0	Antimony	2.74	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	19.6	1		EPA 6010D	
7440-39-3	Barium	147	1		EPA 6010D	J+
7440-41-7	Beryllium	0.055	1	U	EPA 6010D	
7440-43-9	Cadmium	0.329	1	U	EPA 6010D	
7440-70-2	Calcium	39500	1	B	EPA 6010D	
7440-47-3	Chromium	13.7	1		EPA 6010D	
7440-48-4	Cobalt	5.88	1		EPA 6010D	
7440-50-8	Copper	87.1	1		EPA 6010D	
7439-89-6	Iron	20100	1		EPA 6010D	
7439-92-1	Lead	207	1	B	EPA 6010D	
7439-95-4	Magnesium	1280	1		EPA 6010D	
7439-96-5	Manganese	331	1		EPA 6010D	
7440-02-0	Nickel	14.0	1		EPA 6010D	
7440-09-7	Potassium	956	1		EPA 6010D	
7782-49-2	Selenium	6.80	1		EPA 6010D	
7440-22-4	Silver	0.553	1	U	EPA 6010D	
7440-23-5	Sodium	563	1		EPA 6010D	J+
7440-28-0	Thallium	2.74	1	U	EPA 6010D	
7440-62-2	Vanadium	23.3	1		EPA 6010D	
7440-66-6	Zinc	33.0	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID: QBICP2-111523ARE_1-050

Sampled: 11/06/23 11:10 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 14:57

Solids: 79.97 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	12400	1		EPA 6010D	
7440-36-0	Antimony	2.60	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	5.22	1		EPA 6010D	
7440-39-3	Barium	79.1	1		EPA 6010D	J+
7440-41-7	Beryllium	0.053	1	U	EPA 6010D	
7440-43-9	Cadmium	0.313	1	U	EPA 6010D	
7440-70-2	Calcium	1420	1	B	EPA 6010D	
7440-47-3	Chromium	26.6	1		EPA 6010D	
7440-48-4	Cobalt	8.55	1		EPA 6010D	
7440-50-8	Copper	22.3	1		EPA 6010D	
7439-89-6	Iron	20600	1		EPA 6010D	
7439-92-1	Lead	10.3	1	B	EPA 6010D	J
7439-95-4	Magnesium	5360	1		EPA 6010D	
7439-96-5	Manganese	140	1		EPA 6010D	
7440-02-0	Nickel	20.1	1		EPA 6010D	
7440-09-7	Potassium	3130	1		EPA 6010D	
7782-49-2	Selenium	5.58	1		EPA 6010D	
7440-22-4	Silver	0.525	1	U	EPA 6010D	
7440-23-5	Sodium	52.1	1	U	EPA 6010D	
7440-28-0	Thallium	2.60	1	U	EPA 6010D	
7440-62-2	Vanadium	30.4	1		EPA 6010D	
7440-66-6	Zinc	66.4	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: QBICP2-111523ARE_1-051

Sampled: 11/06/23 13:15 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 15:00

Solids: 90.97 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	7590	1		EPA 6010D	
7440-36-0	Antimony	2.29	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	4.13	1		EPA 6010D	
7440-39-3	Barium	70.3	1		EPA 6010D	J+
7440-41-7	Beryllium	0.046	1	U	EPA 6010D	
7440-43-9	Cadmium	0.275	1	U	EPA 6010D	
7440-70-2	Calcium	55100	1	B	EPA 6010D	
7440-47-3	Chromium	17.1	1		EPA 6010D	
7440-48-4	Cobalt	4.94	1		EPA 6010D	
7440-50-8	Copper	58.4	1		EPA 6010D	
7439-89-6	Iron	12800	1		EPA 6010D	
7439-92-1	Lead	78.1	1	B	EPA 6010D	
7439-95-4	Magnesium	18900	1		EPA 6010D	
7439-96-5	Manganese	207	1		EPA 6010D	
7440-02-0	Nickel	12.4	1		EPA 6010D	
7440-09-7	Potassium	1530	1		EPA 6010D	
7782-49-2	Selenium	2.73	1		EPA 6010D	
7440-22-4	Silver	0.462	1	U	EPA 6010D	
7440-23-5	Sodium	327	1		EPA 6010D	J+
7440-28-0	Thallium	2.29	1	U	EPA 6010D	
7440-62-2	Vanadium	25.0	1		EPA 6010D	
7440-66-6	Zinc	41.8	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID: QBICP2-111523ARE_1-052

Sampled: 11/06/23 14:00 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 15:04

Solids: 79.53 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	12700	1		EPA 6010D	
7440-36-0	Antimony	2.62	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	2.01	1		EPA 6010D	
7440-39-3	Barium	116	1		EPA 6010D	J+
7440-41-7	Beryllium	0.053	1	U	EPA 6010D	
7440-43-9	Cadmium	0.314	1	U	EPA 6010D	
7440-70-2	Calcium	25800	1	B	EPA 6010D	
7440-47-3	Chromium	23.0	1		EPA 6010D	
7440-48-4	Cobalt	12.3	1		EPA 6010D	
7440-50-8	Copper	42.4	1		EPA 6010D	
7439-89-6	Iron	20600	1		EPA 6010D	
7439-92-1	Lead	26.0	1	B	EPA 6010D	
7439-95-4	Magnesium	19400	1		EPA 6010D	
7439-96-5	Manganese	206	1		EPA 6010D	
7440-02-0	Nickel	22.4	1		EPA 6010D	
7440-09-7	Potassium	4770	1		EPA 6010D	
7782-49-2	Selenium	4.82	1		EPA 6010D	
7440-22-4	Silver	0.528	1	U	EPA 6010D	
7440-23-5	Sodium	52.4	1	U	EPA 6010D	
7440-28-0	Thallium	2.62	1	U	EPA 6010D	
7440-62-2	Vanadium	38.3	1		EPA 6010D	
7440-66-6	Zinc	56.1	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID: QBICP2-111523ARE_1-053

Sampled: 11/06/23 14:20 Prepared: 11/09/23 21:47 Analyzed: 11/15/23 15:07

Solids: 80.33 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30665 Sequence: S3K1602 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	8330	1		EPA 6010D	
7440-36-0	Antimony	2.59	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	8.87	1		EPA 6010D	
7440-39-3	Barium	136	1		EPA 6010D	J+
7440-41-7	Beryllium	0.052	1	U	EPA 6010D	
7440-43-9	Cadmium	0.311	1	U	EPA 6010D	
7440-70-2	Calcium	22900	1	B	EPA 6010D	
7440-47-3	Chromium	16.4	1		EPA 6010D	
7440-48-4	Cobalt	6.45	1		EPA 6010D	
7440-50-8	Copper	38.5	1		EPA 6010D	
7439-89-6	Iron	13800	1		EPA 6010D	
7439-92-1	Lead	269	1	B	EPA 6010D	
7439-95-4	Magnesium	4140	1		EPA 6010D	
7439-96-5	Manganese	334	1		EPA 6010D	
7440-02-0	Nickel	21.4	1		EPA 6010D	
7440-09-7	Potassium	2200	1		EPA 6010D	
7782-49-2	Selenium	3.90	1		EPA 6010D	
7440-22-4	Silver	0.523	1	U	EPA 6010D	
7440-23-5	Sodium	481	1		EPA 6010D	J+
7440-28-0	Thallium	2.59	1	U	EPA 6010D	
7440-62-2	Vanadium	23.9	1		EPA 6010D	
7440-66-6	Zinc	39.5	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID: QBICP2-111523ARE_1-168

Sampled: 11/06/23 14:30 Prepared: 11/13/23 14:09 Analyzed: 11/15/23 21:58

Solids: 77.29 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30822 Sequence: S3K1607 Calibration: 11/15/23 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	11800	1		EPA 6010D	
7440-36-0	Antimony	2.69	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	4.54	1		EPA 6010D	
7440-39-3	Barium	63.4	1		EPA 6010D	J+
7440-41-7	Beryllium	0.054	1	U	EPA 6010D	
7440-43-9	Cadmium	0.323	1	U	EPA 6010D	
7440-70-2	Calcium	1830	1	B	EPA 6010D	
7440-47-3	Chromium	29.1	1		EPA 6010D	
7440-48-4	Cobalt	7.54	1		EPA 6010D	
7440-50-8	Copper	23.5	1		EPA 6010D	
7439-89-6	Iron	18000	1		EPA 6010D	
7439-92-1	Lead	9.91	1	B	EPA 6010D	
7439-95-4	Magnesium	5820	1		EPA 6010D	
7439-96-5	Manganese	137	1		EPA 6010D	
7440-02-0	Nickel	19.3	1		EPA 6010D	
7440-09-7	Potassium	3170	1		EPA 6010D	
7782-49-2	Selenium	4.66	1		EPA 6010D	
7440-22-4	Silver	0.543	1	U	EPA 6010D	UJ
7440-23-5	Sodium	81.9	1		EPA 6010D	J+
7440-28-0	Thallium	2.69	1	U	EPA 6010D	
7440-62-2	Vanadium	31.3	1		EPA 6010D	
7440-66-6	Zinc	71.1	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID: QBICP2-111523ARE_1-169

Sampled: 11/07/23 10:50 Prepared: 11/13/23 14:09 Analyzed: 11/15/23 22:01

Solids: 93.38 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30822 Sequence: S3K1607 Calibration: 11/15/23 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	5790	1		EPA 6010D	
7440-36-0	Antimony	2.23	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	3.28	1		EPA 6010D	
7440-39-3	Barium	63.1	1		EPA 6010D	J+
7440-41-7	Beryllium	0.045	1	U	EPA 6010D	
7440-43-9	Cadmium	0.268	1	U	EPA 6010D	
7440-70-2	Calcium	67700	1	B	EPA 6010D	
7440-47-3	Chromium	11.3	1		EPA 6010D	
7440-48-4	Cobalt	3.92	1		EPA 6010D	
7440-50-8	Copper	12.5	1		EPA 6010D	
7439-89-6	Iron	9410	1		EPA 6010D	
7439-92-1	Lead	15.1	1	B	EPA 6010D	
7439-95-4	Magnesium	5180	1		EPA 6010D	
7439-96-5	Manganese	160	1		EPA 6010D	
7440-02-0	Nickel	11.1	1		EPA 6010D	
7440-09-7	Potassium	2010	1		EPA 6010D	
7782-49-2	Selenium	2.23	1	U	EPA 6010D	
7440-22-4	Silver	0.450	1	U	EPA 6010D	UJ
7440-23-5	Sodium	389	1		EPA 6010D	J+
7440-28-0	Thallium	2.23	1	U	EPA 6010D	
7440-62-2	Vanadium	24.9	1		EPA 6010D	
7440-66-6	Zinc	26.6	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID: QBICP2-111523ARE_1-170

Sampled: 11/07/23 11:15 Prepared: 11/13/23 14:09 Analyzed: 11/15/23 22:04

Solids: 69.30 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30822 Sequence: S3K1607 Calibration: 11/15/23 2 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	9080	1		EPA 6010D	
7440-36-0	Antimony	3.01	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	8.88	1		EPA 6010D	
7440-39-3	Barium	132	1		EPA 6010D	J+
7440-41-7	Beryllium	0.061	1	U	EPA 6010D	
7440-43-9	Cadmium	0.361	1	U	EPA 6010D	
7440-70-2	Calcium	16000	1	B	EPA 6010D	
7440-47-3	Chromium	22.4	1		EPA 6010D	
7440-48-4	Cobalt	7.36	1		EPA 6010D	
7440-50-8	Copper	65.4	1		EPA 6010D	
7439-89-6	Iron	16600	1		EPA 6010D	
7439-92-1	Lead	420	1	B	EPA 6010D	
7439-95-4	Magnesium	4780	1		EPA 6010D	
7439-96-5	Manganese	196	1		EPA 6010D	
7440-02-0	Nickel	19.8	1		EPA 6010D	
7440-09-7	Potassium	2090	1		EPA 6010D	
7782-49-2	Selenium	4.20	1		EPA 6010D	
7440-22-4	Silver	0.606	1	U	EPA 6010D	UJ
7440-23-5	Sodium	610	1		EPA 6010D	J+
7440-28-0	Thallium	3.01	1	U	EPA 6010D	
7440-62-2	Vanadium	28.8	1		EPA 6010D	
7440-66-6	Zinc	53.1	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID: QBICP2-111523ARE_1-097

Sampled: 11/07/23 11:30 Prepared: 11/09/23 21:43 Analyzed: 11/15/23 17:30

Solids: 65.25 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30664 Sequence: S3K1604 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	4790	1		EPA 6010D	
7440-36-0	Antimony	3.19	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	38.4	1		EPA 6010D	
7440-39-3	Barium	128	1		EPA 6010D	J+
7440-41-7	Beryllium	0.090	1		EPA 6010D	
7440-43-9	Cadmium	0.383	1	U	EPA 6010D	
7440-70-2	Calcium	5870	1	B	EPA 6010D	
7440-47-3	Chromium	13.0	1		EPA 6010D	
7440-48-4	Cobalt	9.58	1		EPA 6010D	
7440-50-8	Copper	94.2	1		EPA 6010D	
7439-89-6	Iron	23300	1		EPA 6010D	
7439-92-1	Lead	323	1		EPA 6010D	
7439-95-4	Magnesium	1220	1		EPA 6010D	
7439-96-5	Manganese	436	1		EPA 6010D	
7440-02-0	Nickel	25.2	1		EPA 6010D	
7440-09-7	Potassium	773	1		EPA 6010D	
7782-49-2	Selenium	7.84	1		EPA 6010D	
7440-22-4	Silver	0.644	1	U	EPA 6010D	UJ
7440-23-5	Sodium	473	1		EPA 6010D	J+
7440-28-0	Thallium	3.19	1	U	EPA 6010D	
7440-62-2	Vanadium	21.5	1		EPA 6010D	
7440-66-6	Zinc	30.8	1		EPA 6010D	J+

MKP 2/13/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID: QBICP2-111523ARE_1-098

Sampled: 11/07/23 11:45 Prepared: 11/09/23 21:43 Analyzed: 11/15/23 17:33

Solids: 78.56 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30664 Sequence: S3K1604 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	9380	1		EPA 6010D	
7440-36-0	Antimony	2.65	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	2.98	1		EPA 6010D	
7440-39-3	Barium	23.1	1		EPA 6010D	J+
7440-41-7	Beryllium	0.053	1	U	EPA 6010D	
7440-43-9	Cadmium	0.318	1	U	EPA 6010D	
7440-70-2	Calcium	619	1	B	EPA 6010D	
7440-47-3	Chromium	14.1	1		EPA 6010D	
7440-48-4	Cobalt	4.68	1		EPA 6010D	
7440-50-8	Copper	7.27	1		EPA 6010D	
7439-89-6	Iron	10700	1		EPA 6010D	
7439-92-1	Lead	5.84	1		EPA 6010D	
7439-95-4	Magnesium	2410	1		EPA 6010D	
7439-96-5	Manganese	78.4	1		EPA 6010D	
7440-02-0	Nickel	11.3	1		EPA 6010D	
7440-09-7	Potassium	917	1		EPA 6010D	
7782-49-2	Selenium	3.47	1		EPA 6010D	
7440-22-4	Silver	0.535	1	U	EPA 6010D	UJ
7440-23-5	Sodium	89.9	1		EPA 6010D	J+
7440-28-0	Thallium	2.65	1	U	EPA 6010D	
7440-62-2	Vanadium	16.4	1		EPA 6010D	
7440-66-6	Zinc	35.2	1		EPA 6010D	J+

MKP 2/13/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: HG

METHOD: EPA 7473

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/3/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 10:00 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 90.53 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.277	1		EPA 7473

J

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 10:15 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 77.74 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0689	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 10:20 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 62.43 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	12.4	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-04 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 10:35 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 83.70 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0358	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 10:45 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 90.78 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.176	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 10:50 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 83.00 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.534	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 11:00 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 75.95 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	1.26	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 11:10 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 79.97 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0375	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 13:15 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 90.97 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.249	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 14:00 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 79.53 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.180	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 14:20 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 80.33 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	1.21	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID: QBHg-DMA80-04 111423a

Sampled: 11/06/23 14:30 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 77.29 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0388	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID: QBHg-DMA80-04 111423a

Sampled: 11/07/23 10:50 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 93.38 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0338	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID: QBHg-DMA80-04 111423a

Sampled: 11/07/23 11:15 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 69.30 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	1.87	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID: QBHg-DMA80-04 111423a

Sampled: 11/07/23 11:30 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 65.25 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	1.28	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID: QBHg-DMA80-04 111423a

Sampled: 11/07/23 11:45 Prepared: 11/14/23 16:48 Analyzed: 11/14/23 22:39

Solids: 78.56 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK30939 Sequence: S3K1459 Calibration: 11/14/23 2 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0382	1	U	EPA 7473

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: WET

METHOD: Calculation

No data validation qualifiers were added

MKP 2/13/2024

DATA PACKAGE COVER PAGE

Calculation

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/3/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID:

Sampled: 11/06/23 10:00 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 90.53 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	15.3	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID:

Sampled: 11/06/23 10:15 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 77.74 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	26.6	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID:

Sampled: 11/06/23 10:20 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 62.43 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	20.3	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-04 File ID:

Sampled: 11/06/23 10:35 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 83.70 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	22.2	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID:

Sampled: 11/06/23 10:45 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 90.78 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	12.6	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID:

Sampled: 11/06/23 10:50 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 83.00 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	24.4	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID:

Sampled: 11/06/23 11:00 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 75.95 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	13.7	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID:

Sampled: 11/06/23 11:10 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 79.97 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	26.6	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID:

Sampled: 11/06/23 13:15 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 90.97 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	15.3	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID:

Sampled: 11/06/23 14:00 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 79.53 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	23.0	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID:

Sampled: 11/06/23 14:20 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 80.33 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	16.4	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID:

Sampled: 11/06/23 14:30 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 77.29 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	29.1	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID:

Sampled: 11/07/23 10:50 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 93.38 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	11.3	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID:

Sampled: 11/07/23 11:15 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 69.30 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	22.4	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID:

Sampled: 11/07/23 11:30 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 65.25 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	13.0	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID:

Sampled: 11/07/23 11:45 Prepared: 11/16/23 05:51 Analyzed: 11/16/23 10:50

Solids: 78.56 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31029 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	14.1	1		Calculation

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: WET

METHOD: EPA 7196A

DATA PACKAGE COVER PAGE

EPA 7196A

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/3/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID:

Sampled: 11/06/23 10:00 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 90.53 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.552	1	U	EPA 7196A

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EPA 7196A

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID:

Sampled: 11/06/23 10:15 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 77.74 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.643	1	U	EPA 7196A

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EPA 7196A

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID:

Sampled: 11/06/23 10:20 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 62.43 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.801	1	U	EPA 7196A

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EPA 7196A

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-04 File ID:

Sampled: 11/06/23 10:35 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 83.70 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.597	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID:

Sampled: 11/06/23 10:45 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 90.78 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.551	1	U	EPA 7196A

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EPA 7196A

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID:

Sampled: 11/06/23 10:50 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 83.00 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.602	1	U	EPA 7196A

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EPA 7196A

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID:

Sampled: 11/06/23 11:00 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 75.95 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.658	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID:

Sampled: 11/06/23 11:10 Prepared: 11/13/23 09:15 Analyzed: 11/13/23 18:11

Solids: 79.97 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30805 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
18540-29-9	Chromium, Hexavalent	0.625	1	U	EPA 7196A	UJ

MKP 2/13/2024

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EPA 7196A

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID:

Sampled: 11/06/23 13:15 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 90.97 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	1.76	1		EPA 7196A

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EPA 7196A

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID:

Sampled: 11/06/23 14:00 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 79.53 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.629	1	U	EPA 7196A

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EPA 7196A

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID:

Sampled: 11/06/23 14:20 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 80.33 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.622	1	U	EPA 7196A

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EPA 7196A

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID:

Sampled: 11/06/23 14:30 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 77.29 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.647	1	U	EPA 7196A

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EPA 7196A

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID:

Sampled: 11/07/23 10:50 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 93.38 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.535	1	U	EPA 7196A

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EPA 7196A

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID:

Sampled: 11/07/23 11:15 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 69.30 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.721	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID:

Sampled: 11/07/23 11:30 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 65.25 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.766	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID:

Sampled: 11/07/23 11:45 Prepared: 11/13/23 14:43 Analyzed: 11/13/23 19:51

Solids: 78.56 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30826 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.636	1	U	EPA 7196A

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: WET

METHOD: EPA 9014/9010C

No data validation qualifiers were added

MKP 2/13/2024

DATA PACKAGE COVER PAGE

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/3/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID:

Sampled: 11/06/23 10:00 Prepared: 11/10/23 14:43 Analyzed: 11/10/23 21:42

Solids: 90.53 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30713 Sequence: Calibration: 11/10/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.552	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID:

Sampled: 11/06/23 10:15 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 77.74 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.643	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID:

Sampled: 11/06/23 10:20 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 62.43 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.801	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-04 File ID:

Sampled: 11/06/23 10:35 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 83.70 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.597	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID:

Sampled: 11/06/23 10:45 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 90.78 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.826	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID:

Sampled: 11/06/23 10:50 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 83.00 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.602	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID:

Sampled: 11/06/23 11:00 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 75.95 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	8.36	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID:

Sampled: 11/06/23 11:10 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 79.97 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.625	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID:

Sampled: 11/06/23 13:15 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 90.97 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.550	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID:

Sampled: 11/06/23 14:00 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 79.53 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.629	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID:

Sampled: 11/06/23 14:20 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 80.33 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.622	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID:

Sampled: 11/06/23 14:30 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 77.29 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.647	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID:

Sampled: 11/07/23 10:50 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 93.38 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.535	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID:

Sampled: 11/07/23 11:15 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 69.30 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.721	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID:

Sampled: 11/07/23 11:30 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 65.25 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.766	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID:

Sampled: 11/07/23 11:45 Prepared: 11/13/23 09:26 Analyzed: 11/13/23 15:06

Solids: 78.56 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30809 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.636	1	U	EPA 9014/9010C

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0580

CLASS: WET

METHOD: SM 2540G

No data validation qualifiers were added

MKP 2/13/2024

DATA PACKAGE COVER PAGE

SM 2540G

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23SP9 (0-2.5ft)	23K0580-01
23SP9 (10-12.5ft)	23K0580-02
23SP9 (12.5-15ft)	23K0580-03
23SP9 (25-27.5ft)	23K0580-04
23SP8 (0-2.5ft)	23K0580-05
23SP8 (10-12.5ft)	23K0580-06
23SP8 (14-16ft)	23K0580-07
23SP8 (25-27.5ft)	23K0580-08
23SP10 (0-2.5ft)	23K0580-11
23SP10 (12.5-15ft)	23K0580-12
23SP10 (18-22ft)	23K0580-13
23SP10 (25-27.5ft)	23K0580-14
23SP1 (0-2.5ft)	23K0580-15
23SP1 (10-12.5ft)	23K0580-16
23SP1 (12.5-15ft)	23K0580-17
23SP1 (22.5-25ft)	23K0580-18

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/3/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP9 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-01 File ID:

Sampled: 11/06/23 10:00 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 90.53 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	90.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP9 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-02 File ID:

Sampled: 11/06/23 10:15 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 77.74 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	77.7	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP9 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-03 File ID:

Sampled: 11/06/23 10:20 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 62.43 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	62.4	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP9 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-04 File ID:

Sampled: 11/06/23 10:35 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 83.70 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	83.7	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP8 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-05 File ID:

Sampled: 11/06/23 10:45 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 90.78 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	90.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP8 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-06 File ID:

Sampled: 11/06/23 10:50 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 83.00 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	83.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP8 (14-16ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-07 File ID:

Sampled: 11/06/23 11:00 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 75.95 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	75.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP8 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-08 File ID:

Sampled: 11/06/23 11:10 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 79.97 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	80.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP10 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-11 File ID:

Sampled: 11/06/23 13:15 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 90.97 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP10 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-12 File ID:

Sampled: 11/06/23 14:00 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 79.53 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	79.5	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP10 (18-22ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-13 File ID:

Sampled: 11/06/23 14:20 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 80.33 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	80.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP10 (25-27.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-14 File ID:

Sampled: 11/06/23 14:30 Prepared: 11/13/23 07:42 Analyzed: 11/13/23 13:32

Solids: 77.29 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30780 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	77.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP1 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-15 File ID:

Sampled: 11/07/23 10:50 Prepared: 11/13/23 07:48 Analyzed: 11/13/23 14:57

Solids: 93.38 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30781 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	93.4	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP1 (10-12.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-16 File ID:

Sampled: 11/07/23 11:15 Prepared: 11/13/23 07:48 Analyzed: 11/13/23 14:57

Solids: 69.30 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30781 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	69.3	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP1 (12.5-15ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-17 File ID:

Sampled: 11/07/23 11:30 Prepared: 11/13/23 07:48 Analyzed: 11/13/23 14:57

Solids: 65.25 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30781 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	65.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street

Matrix: Soil Laboratory ID: 23K0580-18 File ID:

Sampled: 11/07/23 11:45 Prepared: 11/13/23 07:48 Analyzed: 11/13/23 14:57

Solids: 78.56 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30781 Sequence: Calibration: 11/13/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	78.6	1		SM 2540G

Appendix B

Laboratory QC Documentation

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1315
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1315-CCV1)			Lab File ID: V5435273.D		Analyzed: 11/12/23 15:01			
SURR: 1,2-Dichloroethane-d4	50.0	98.1	80 - 120	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	94.0	80 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	98.4	80 - 120	9.868	9.865143	0.0029	+/-1.00	
LCS (BK30769-BS1)			Lab File ID: V5435274.D		Analyzed: 11/12/23 15:36			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.257	5.258714	-0.0017	+/-1.00	
SURR: Toluene-d8	50.0	93.0	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.9	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
LCS Dup (BK30769-BSD1)			Lab File ID: V5435275.D		Analyzed: 11/12/23 16:03			
SURR: 1,2-Dichloroethane-d4	50.0	100	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	93.1	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.6	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
Blank (BK30769-BLK1)			Lab File ID: V5435276.D		Analyzed: 11/12/23 16:31			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	93.5	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	102	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30769-BLK2)			Lab File ID: V5435277.D		Analyzed: 11/12/23 16:58			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.257	5.258714	-0.0017	+/-1.00	
SURR: Toluene-d8	50.0	92.5	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	100	76 - 130	9.864	9.865143	-0.0011	+/-1.00	
23SP9 (0-2.5ft) (23K0580-01)			Lab File ID: V5435281.D		Analyzed: 11/12/23 18:48			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	94.1	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	106	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP9 (10-12.5ft) (23K0580-02)			Lab File ID: V5435282.D		Analyzed: 11/12/23 19:16			
SURR: 1,2-Dichloroethane-d4	50.0	100	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	93.0	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	102	76 - 130	9.864	9.865143	-0.0011	+/-1.00	
23SP8 (0-2.5ft) (23K0580-05)			Lab File ID: V5435284.D		Analyzed: 11/12/23 20:11			
SURR: 1,2-Dichloroethane-d4	50.0	55.6	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	97.9	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	108	76 - 130	9.865	9.865143	-0.0001	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1315
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP8 (10-12.5ft) (23K0580-06)			Lab File ID: V5435285.D		Analyzed: 11/12/23 20:38			
SURR: 1,2-Dichloroethane-d4	50.0	94.9	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	93.9	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	105	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP8 (25-27.5ft) (23K0580-08)			Lab File ID: V5435286.D		Analyzed: 11/12/23 21:06			
SURR: 1,2-Dichloroethane-d4	50.0	77.9	77 - 125	5.257	5.258714	-0.0017	+/-1.00	
SURR: Toluene-d8	50.0	91.6	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	98.3	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP9 (12.5-15ft) (23K0580-03)			Lab File ID: V5435294.D		Analyzed: 11/13/23 00:46			
SURR: 1,2-Dichloroethane-d4	50.0	65.4	77 - 125	5.257	5.258714	-0.0017	+/-1.00	*
SURR: Toluene-d8	50.0	97.7	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	103	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP8 (14-16ft) (23K0580-07)			Lab File ID: V5435295.D		Analyzed: 11/13/23 01:13			
SURR: 1,2-Dichloroethane-d4	50.0	32.9	77 - 125	5.257	5.258714	-0.0017	+/-1.00	*
SURR: Toluene-d8	50.0	116	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	124	76 - 130	9.864	9.865143	-0.0011	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1416
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1416-CCV1)			Lab File ID: V5435301.D		Analyzed: 11/13/23 09:32			
SURR: 1,2-Dichloroethane-d4	50.0	101	80 - 120	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	92.3	80 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.4	80 - 120	9.868	9.865143	0.0029	+/-1.00	
LCS (BK30784-BS1)			Lab File ID: V5435302.D		Analyzed: 11/13/23 10:12			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	96.8	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
LCS Dup (BK30784-BSD1)			Lab File ID: V5435303.D		Analyzed: 11/13/23 10:39			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.4	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
Blank (BK30784-BLK1)			Lab File ID: V5435304.D		Analyzed: 11/13/23 11:07			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.3	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	99.0	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30784-BLK2)			Lab File ID: V5435305.D		Analyzed: 11/13/23 11:34			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.4	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	99.6	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP10 (12.5-15ft) (23K0580-12)			Lab File ID: V5435307.D		Analyzed: 11/13/23 12:29			
SURR: 1,2-Dichloroethane-d4	50.0	125	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	86.9	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	89.5	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP10 (18-22ft) (23K0580-13)			Lab File ID: V5435308.D		Analyzed: 11/13/23 12:57			
SURR: 1,2-Dichloroethane-d4	50.0	22.5	77 - 125	5.263	5.258714	0.0043	+/-1.00	*
SURR: Toluene-d8	50.0	100	85 - 120	7.096	7.092571	0.0034	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	119	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP1 (0-2.5ft) (23K0580-15)			Lab File ID: V5435310.D		Analyzed: 11/13/23 13:52			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.2	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	104	76 - 130	9.868	9.865143	0.0029	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1416
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP1 (10-12.5ft) (23K0580-16)			Lab File ID: V5435311.D		Analyzed: 11/13/23 14:19			
SURR: 1,2-Dichloroethane-d4	50.0	109	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	93.8	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	127	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP1 (22.5-25ft) (23K0580-18)			Lab File ID: V5435313.D		Analyzed: 11/13/23 15:14			
SURR: 1,2-Dichloroethane-d4	50.0	91.2	77 - 125	5.257	5.258714	-0.0017	+/-1.00	
SURR: Toluene-d8	50.0	92.0	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	101	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP9 (25-27.5ft) (23K0580-04)			Lab File ID: V5435316.D		Analyzed: 11/13/23 16:36			
SURR: 1,2-Dichloroethane-d4	50.0	132	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	85.5	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	89.0	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP8 (14-16ft) (23K0580-07RE1)			Lab File ID: V5435317.D		Analyzed: 11/13/23 17:04			
SURR: 1,2-Dichloroethane-d4	50.0	69.0	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	95.4	85 - 120	7.09	7.092571	-0.0026	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	104	76 - 130	9.864	9.865143	-0.0011	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1518
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1518-CCV1)			Lab File ID: V5435351.D		Analyzed: 11/14/23 09:31			
SURR: 1,2-Dichloroethane-d4	50.0	101	80 - 120	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	90.5	80 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.9	80 - 120	9.865	9.865143	-0.0001	+/-1.00	
LCS (BK30861-BS1)			Lab File ID: V5435352.D		Analyzed: 11/14/23 10:09			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.263	5.258714	0.0043	+/-1.00	
SURR: Toluene-d8	50.0	90.5	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	96.4	76 - 130	9.868	9.865143	0.0029	+/-1.00	
LCS Dup (BK30861-BSD1)			Lab File ID: V5435353.D		Analyzed: 11/14/23 10:37			
SURR: 1,2-Dichloroethane-d4	50.0	99.5	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.3	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.1	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30861-BLK1)			Lab File ID: V5435354.D		Analyzed: 11/14/23 11:04			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	89.8	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	98.4	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30861-BLK2)			Lab File ID: V5435355.D		Analyzed: 11/14/23 11:32			
SURR: 1,2-Dichloroethane-d4	50.0	100	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	90.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	99.3	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP10 (0-2.5ft) (23K0580-11)			Lab File ID: V5435365.D		Analyzed: 11/14/23 16:07			
SURR: 1,2-Dichloroethane-d4	50.0	63.9	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	93.4	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	104	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP10 (25-27.5ft) (23K0580-14)			Lab File ID: V5435366.D		Analyzed: 11/14/23 16:34			
SURR: 1,2-Dichloroethane-d4	50.0	90.7	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	102	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP10 (18-22ft) (23K0580-13RE1)			Lab File ID: V5435367.D		Analyzed: 11/14/23 17:02			
SURR: 1,2-Dichloroethane-d4	50.0	135	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	84.0	85 - 120	7.093	7.092571	0.0004	+/-1.00	*
SURR: p-Bromofluorobenzene	50.0	90.3	76 - 130	9.865	9.865143	-0.0001	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Sequence:	S3K1518	Instrument:	VOA No. 5
		Calibration:	SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP1 (12.5-15ft) (23K0580-17)			Lab File ID: V5435368.D		Analyzed: 11/14/23 17:29			
SURR: 1,2-Dichloroethane-d4	50.0	10.6	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	106	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	112	76 - 130	9.865	9.865143	-0.0001	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1528
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1528-CCV1)			Lab File ID: V5435399.D		Analyzed: 11/15/23 09:45			
SURR: 1,2-Dichloroethane-d4	50.0	101	80 - 120	5.257	5.258714	-0.0017	+/-1.00	
SURR: Toluene-d8	50.0	89.3	80 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.1	80 - 120	9.864	9.865143	-0.0011	+/-1.00	
LCS (BK30956-BS1)			Lab File ID: V5435400.D		Analyzed: 11/15/23 10:24			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	88.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.3	76 - 130	9.868	9.865143	0.0029	+/-1.00	
LCS Dup (BK30956-BSD1)			Lab File ID: V5435401.D		Analyzed: 11/15/23 10:52			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.263	5.258714	0.0043	+/-1.00	
SURR: Toluene-d8	50.0	88.9	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	96.4	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30956-BLK1)			Lab File ID: V5435402.D		Analyzed: 11/15/23 11:19			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	89.0	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.9	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
Blank (BK30956-BLK2)			Lab File ID: V5435403.D		Analyzed: 11/15/23 11:46			
SURR: 1,2-Dichloroethane-d4	50.0	103	77 - 125	5.263	5.258714	0.0043	+/-1.00	
SURR: Toluene-d8	50.0	88.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.7	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP1 (12.5-15ft) (23K0580-17RE1)			Lab File ID: V5435419.D		Analyzed: 11/15/23 19:04			
SURR: 1,2-Dichloroethane-d4	50.0	25.2	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	94.5	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	102	76 - 130	9.868	9.865143	0.0029	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30769	Laboratory ID:	BK30769-BS1
Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	41	82.8	75 - 129
1,1,1-Trichloroethane	50.0	46	91.6	71 - 137
1,1,2,2-Tetrachloroethane	50.0	50	101	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	43	86.0	58 - 146
1,1,2-Trichloroethane	50.0	48	96.8	83 - 123
1,1-Dichloroethane	50.0	47	94.1	75 - 130
1,1-Dichloroethylene	50.0	41	82.6	64 - 137
1,2,3-Trichlorobenzene	50.0	52	103	81 - 140
1,2,3-Trichloropropane	50.0	50	101	81 - 126
1,2,4-Trichlorobenzene	50.0	52	103	80 - 141
1,2,4-Trimethylbenzene	50.0	47	94.2	84 - 125
1,2-Dibromo-3-chloropropane	50.0	35	70.0 *	74 - 142
1,2-Dibromoethane	50.0	46	91.5	86 - 123
1,2-Dichlorobenzene	50.0	49	97.8	85 - 122
1,2-Dichloroethane	50.0	51	103	71 - 133
1,2-Dichloropropane	50.0	44	88.6	81 - 122
1,3,5-Trimethylbenzene	50.0	45	90.6	82 - 126
1,3-Dichlorobenzene	50.0	49	98.9	84 - 124
1,4-Dichlorobenzene	50.0	49	98.1	84 - 124
1,4-Dioxane	1050	410	38.6	10 - 228
2-Butanone	50.0	44	88.3	58 - 147
2-Hexanone	50.0	37	74.7	70 - 139
4-Methyl-2-pentanone	50.0	31	61.7 *	72 - 132
Acetone	50.0	25	50.9	36 - 155
Acrolein	50.0	47	94.1	10 - 238
Acrylonitrile	50.0	53	106	66 - 141
Benzene	50.0	50	101	77 - 127
Bromochloromethane	50.0	50	99.3	74 - 129
Bromodichloromethane	50.0	41	82.5	81 - 124
Bromoform	50.0	43	86.4	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30769	Laboratory ID:	BK30769-BSD1
Preparation:	EPA 5030B	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	42	84.8	2.32	30	75 - 129
1,1,1-Trichloroethane	50.0	48	95.0	3.71	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	51	103	2.06	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	45	90.7	5.32	30	58 - 146
1,1,2-Trichloroethane	50.0	50	99.2	2.43	30	83 - 123
1,1-Dichloroethane	50.0	49	97.7	3.75	30	75 - 130
1,1-Dichloroethylene	50.0	44	87.3	5.54	30	64 - 137
1,2,3-Trichlorobenzene	50.0	53	106	2.37	30	81 - 140
1,2,3-Trichloropropane	50.0	52	104	3.12	30	81 - 126
1,2,4-Trichlorobenzene	50.0	53	106	2.52	30	80 - 141
1,2,4-Trimethylbenzene	50.0	48	96.6	2.54	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	37	73.8 *	5.23	30	74 - 142
1,2-Dibromoethane	50.0	47	94.2	2.84	30	86 - 123
1,2-Dichlorobenzene	50.0	50	100	2.23	30	85 - 122
1,2-Dichloroethane	50.0	53	105	2.10	30	71 - 133
1,2-Dichloropropane	50.0	46	91.6	3.29	30	81 - 122
1,3,5-Trimethylbenzene	50.0	47	93.4	3.02	30	82 - 126
1,3-Dichlorobenzene	50.0	51	101	2.26	30	84 - 124
1,4-Dichlorobenzene	50.0	50	99.5	1.46	30	84 - 124
1,4-Dioxane	1050	430	40.7	5.30	30	10 - 228
2-Butanone	50.0	46	92.5	4.60	30	58 - 147
2-Hexanone	50.0	39	77.6	3.86	30	70 - 139
4-Methyl-2-pentanone	50.0	32	63.4 *	2.68	30	72 - 132
Acetone	50.0	27	53.5	4.98	30	36 - 155
Acrolein	50.0	48	95.8	1.85	30	10 - 238
Acrylonitrile	50.0	54	107	1.69	30	66 - 141
Benzene	50.0	52	104	3.32	30	77 - 127
Bromochloromethane	50.0	51	102	2.35	30	74 - 129
Bromodichloromethane	50.0	43	85.5	3.52	30	81 - 124
Bromoform	50.0	44	87.3	0.990	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30784	Laboratory ID:	BK30784-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	39	78.3	75 - 129
1,1,1-Trichloroethane	50.0	44	88.7	71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	96.2	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	55	110	58 - 146
1,1,2-Trichloroethane	50.0	47	93.9	83 - 123
1,1-Dichloroethane	50.0	45	90.6	75 - 130
1,1-Dichloroethylene	50.0	58	117	64 - 137
1,2,3-Trichlorobenzene	50.0	50	100	81 - 140
1,2,3-Trichloropropane	50.0	49	98.2	81 - 126
1,2,4-Trichlorobenzene	50.0	49	97.4	80 - 141
1,2,4-Trimethylbenzene	50.0	44	87.1	84 - 125
1,2-Dibromo-3-chloropropane	50.0	34	68.6 *	74 - 142
1,2-Dibromoethane	50.0	45	89.9	86 - 123
1,2-Dichlorobenzene	50.0	46	92.3	85 - 122
1,2-Dichloroethane	50.0	50	101	71 - 133
1,2-Dichloropropane	50.0	42	84.1	81 - 122
1,3,5-Trimethylbenzene	50.0	42	83.7	82 - 126
1,3-Dichlorobenzene	50.0	46	92.0	84 - 124
1,4-Dichlorobenzene	50.0	46	91.3	84 - 124
1,4-Dioxane	1050	400	38.4	10 - 228
2-Butanone	50.0	44	87.8	58 - 147
2-Hexanone	50.0	37	73.1	70 - 139
4-Methyl-2-pentanone	50.0	30	60.1 *	72 - 132
Acetone	50.0	42	83.5	36 - 155
Acrolein	50.0	84	168	10 - 238
Acrylonitrile	50.0	54	108	66 - 141
Benzene	50.0	49	97.4	77 - 127
Bromochloromethane	50.0	49	97.2	74 - 129
Bromodichloromethane	50.0	39	78.1 *	81 - 124
Bromoform	50.0	42	83.0	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30784	Laboratory ID:	BK30784-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #		QC LIMITS REC.
Bromomethane	50.0	36	72.0		32 - 177
Carbon disulfide	50.0	44	88.9		10 - 136
Carbon tetrachloride	50.0	44	87.4		66 - 143
Chlorobenzene	50.0	47	93.7		86 - 120
Chloroethane	50.0	35	69.3		51 - 142
Chloroform	50.0	49	97.9		76 - 131
Chloromethane	50.0	34	68.2		49 - 132
cis-1,2-Dichloroethylene	50.0	46	92.6		74 - 132
cis-1,3-Dichloropropylene	50.0	37	73.7	*	81 - 129
Cyclohexane	50.0	48	96.9		70 - 130
Dibromochloromethane	50.0	41	82.4		10 - 200
Dibromomethane	50.0	46	91.1		83 - 124
Dichlorodifluoromethane	50.0	52	105		28 - 158
Ethyl Benzene	50.0	43	85.9		84 - 125
Hexachlorobutadiene	50.0	49	97.4		83 - 133
Isopropylbenzene	50.0	44	87.3		81 - 127
Methyl acetate	50.0	48	96.0		41 - 143
Methyl tert-butyl ether (MTBE)	50.0	42	84.1		74 - 131
Methylcyclohexane	50.0	37	75.0		70 - 130
Methylene chloride	50.0	46	91.1		57 - 141
n-Butylbenzene	50.0	41	82.5		80 - 130
n-Propylbenzene	50.0	42	84.4		74 - 136
o-Xylene	50.0	40	79.1	*	83 - 123
p- & m- Xylenes	100	86	85.8		82 - 128
p-Isopropyltoluene	50.0	43	86.6		85 - 125
sec-Butylbenzene	50.0	43	86.1		83 - 125
Styrene	50.0	40	79.3	*	86 - 126
tert-Butyl alcohol (TBA)	250	190	76.4		70 - 130
tert-Butylbenzene	50.0	40	79.7	*	80 - 127
Tetrachloroethylene	50.0	35	69.9	*	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30784	Laboratory ID:	BK30784-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	43	85.3	8.54	30	75 - 129
1,1,1-Trichloroethane	50.0	50	100	12.1	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	52	103	7.25	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	62	123	11.0	30	58 - 146
1,1,2-Trichloroethane	50.0	49	99.0	5.29	30	83 - 123
1,1-Dichloroethane	50.0	51	102	11.6	30	75 - 130
1,1-Dichloroethylene	50.0	65	130	10.6	30	64 - 137
1,2,3-Trichlorobenzene	50.0	56	111	10.7	30	81 - 140
1,2,3-Trichloropropane	50.0	52	103	5.22	30	81 - 126
1,2,4-Trichlorobenzene	50.0	54	108	10.2	30	80 - 141
1,2,4-Trimethylbenzene	50.0	48	96.2	9.93	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	38	75.0	8.91	30	74 - 142
1,2-Dibromoethane	50.0	47	94.0	4.46	30	86 - 123
1,2-Dichlorobenzene	50.0	50	101	9.00	30	85 - 122
1,2-Dichloroethane	50.0	54	108	6.98	30	71 - 133
1,2-Dichloropropane	50.0	46	92.1	9.17	30	81 - 122
1,3,5-Trimethylbenzene	50.0	47	93.2	10.7	30	82 - 126
1,3-Dichlorobenzene	50.0	51	101	9.42	30	84 - 124
1,4-Dichlorobenzene	50.0	50	100	9.06	30	84 - 124
1,4-Dioxane	1050	410	39.4	2.56	30	10 - 228
2-Butanone	50.0	45	90.6	3.12	30	58 - 147
2-Hexanone	50.0	39	77.3	5.67	30	70 - 139
4-Methyl-2-pentanone	50.0	31	62.9 *	4.55	30	72 - 132
Acetone	50.0	42	83.7	0.191	30	36 - 155
Acrolein	50.0	45	90.8	59.7 *	30	10 - 238
Acrylonitrile	50.0	55	109	1.23	30	66 - 141
Benzene	50.0	54	108	10.5	30	77 - 127
Bromochloromethane	50.0	52	104	6.80	30	74 - 129
Bromodichloromethane	50.0	42	83.9	7.16	30	81 - 124
Bromoform	50.0	44	88.1	5.89	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Water		
Batch:	BK30810	Laboratory ID:	BK30810-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	7.3	72.6	43 - 168
Carbon disulfide	10.0	9.6	96.2	68 - 146
Carbon tetrachloride	10.0	10	102	77 - 141
Chlorobenzene	10.0	9.7	97.3	88 - 120
Chloroethane	10.0	10	103	65 - 136
Chloroform	10.0	9.8	98.3	82 - 128
Chloromethane	10.0	9.8	98.4	43 - 155
cis-1,2-Dichloroethylene	10.0	9.9	99.1	83 - 129
cis-1,3-Dichloropropylene	10.0	9.3	93.0	80 - 131
Cyclohexane	10.0	9.3	93.4	63 - 149
Dibromochloromethane	10.0	9.5	94.9	80 - 130
Dibromomethane	10.0	9.6	96.5	72 - 134
Dichlorodifluoromethane	10.0	12	118	44 - 144
Ethyl Benzene	10.0	10	100	80 - 131
Hexachlorobutadiene	10.0	8.9	89.1	67 - 146
Isopropylbenzene	10.0	9.6	96.1	76 - 140
Methyl acetate	10.0	7.8	77.6	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.6	96.3	76 - 135
Methylcyclohexane	10.0	9.4	94.0	72 - 143
Methylene chloride	10.0	9.3	93.2	55 - 137
n-Butylbenzene	10.0	8.8	87.6	79 - 132
n-Propylbenzene	10.0	9.6	95.9	78 - 133
o-Xylene	10.0	9.8	98.1	78 - 130
p- & m- Xylenes	20.0	20	99.2	77 - 133
p-Isopropyltoluene	10.0	9.6	95.7	81 - 136
sec-Butylbenzene	10.0	9.5	95.0	79 - 137
Styrene	10.0	9.9	99.2	67 - 132
tert-Butyl alcohol (TBA)	50.0	48	96.8	25 - 162
tert-Butylbenzene	10.0	9.1	91.3	77 - 138
Tetrachloroethylene	10.0	4.7	47.4 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Water		
Batch:	BK30810	Laboratory ID:	BK30810-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	7.7	76.6		5.36	30	43 - 168
Carbon disulfide	10.0	9.5	95.0		1.26	30	68 - 146
Carbon tetrachloride	10.0	10	99.6		2.09	30	77 - 141
Chlorobenzene	10.0	9.6	95.9		1.45	30	88 - 120
Chloroethane	10.0	9.8	97.7		4.99	30	65 - 136
Chloroform	10.0	9.9	99.2		0.911	30	82 - 128
Chloromethane	10.0	9.4	93.6		5.00	30	43 - 155
cis-1,2-Dichloroethylene	10.0	9.8	97.9		1.22	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.2	92.0		1.08	30	80 - 131
Cyclohexane	10.0	9.2	91.5		2.06	30	63 - 149
Dibromochloromethane	10.0	9.5	95.1		0.211	30	80 - 130
Dibromomethane	10.0	9.6	96.5		0.00	30	72 - 134
Dichlorodifluoromethane	10.0	11	114		3.28	30	44 - 144
Ethyl Benzene	10.0	9.9	99.0		1.50	30	80 - 131
Hexachlorobutadiene	10.0	8.8	88.5		0.676	30	67 - 146
Isopropylbenzene	10.0	9.6	96.1		0.00	30	76 - 140
Methyl acetate	10.0	8.0	79.7		2.67	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.9	99.1		2.87	30	76 - 135
Methylcyclohexane	10.0	9.2	92.0		2.15	30	72 - 143
Methylene chloride	10.0	9.4	93.6		0.428	30	55 - 137
n-Butylbenzene	10.0	9.1	91.2		4.03	30	79 - 132
n-Propylbenzene	10.0	9.5	95.4		0.523	30	78 - 133
o-Xylene	10.0	9.8	97.6		0.511	30	78 - 130
p- & m- Xylenes	20.0	20	98.4		0.709	30	77 - 133
p-Isopropyltoluene	10.0	9.7	97.4		1.76	30	81 - 136
sec-Butylbenzene	10.0	9.7	96.6		1.67	30	79 - 137
Styrene	10.0	9.8	98.4		0.810	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	49	98.8		2.00	30	25 - 162
tert-Butylbenzene	10.0	9.2	92.4		1.20	30	77 - 138
Tetrachloroethylene	10.0	4.6	46.1	*	2.78	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30861	Laboratory ID:	BK30861-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	41	82.7	75 - 129
1,1,1-Trichloroethane	50.0	49	98.6	71 - 137
1,1,2,2-Tetrachloroethane	50.0	49	97.1	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	56	111	58 - 146
1,1,2-Trichloroethane	50.0	48	95.5	83 - 123
1,1-Dichloroethane	50.0	50	99.2	75 - 130
1,1-Dichloroethylene	50.0	51	101	64 - 137
1,2,3-Trichlorobenzene	50.0	51	101	81 - 140
1,2,3-Trichloropropane	50.0	49	97.3	81 - 126
1,2,4-Trichlorobenzene	50.0	50	99.5	80 - 141
1,2,4-Trimethylbenzene	50.0	45	90.8	84 - 125
1,2-Dibromo-3-chloropropane	50.0	34	68.9 *	74 - 142
1,2-Dibromoethane	50.0	46	91.8	86 - 123
1,2-Dichlorobenzene	50.0	48	95.2	85 - 122
1,2-Dichloroethane	50.0	54	108	71 - 133
1,2-Dichloropropane	50.0	44	87.3	81 - 122
1,3,5-Trimethylbenzene	50.0	44	88.6	82 - 126
1,3-Dichlorobenzene	50.0	48	96.1	84 - 124
1,4-Dichlorobenzene	50.0	47	95.0	84 - 124
1,4-Dioxane	1050	400	37.9	10 - 228
2-Butanone	50.0	45	90.7	58 - 147
2-Hexanone	50.0	36	72.1	70 - 139
4-Methyl-2-pentanone	50.0	30	59.4 *	72 - 132
Acetone	50.0	41	81.2	36 - 155
Acrolein	50.0	45	89.8	10 - 238
Acrylonitrile	50.0	54	109	66 - 141
Benzene	50.0	53	106	77 - 127
Bromochloromethane	50.0	51	103	74 - 129
Bromodichloromethane	50.0	41	81.4	81 - 124
Bromoform	50.0	43	85.4	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30861	Laboratory ID:	BK30861-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	43	85.5	3.35	30	75 - 129
1,1,1-Trichloroethane	50.0	52	104	5.58	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	96.3	0.889	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	48	95.3	15.2	30	58 - 146
1,1,2-Trichloroethane	50.0	48	96.5	1.10	30	83 - 123
1,1-Dichloroethane	50.0	52	104	4.94	30	75 - 130
1,1-Dichloroethylene	50.0	46	91.0	10.8	30	64 - 137
1,2,3-Trichlorobenzene	50.0	52	103	1.84	30	81 - 140
1,2,3-Trichloropropane	50.0	49	98.3	0.981	30	81 - 126
1,2,4-Trichlorobenzene	50.0	51	102	2.89	30	80 - 141
1,2,4-Trimethylbenzene	50.0	48	97.0	6.56	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	32	63.8 *	7.75	30	74 - 142
1,2-Dibromoethane	50.0	46	91.2	0.612	30	86 - 123
1,2-Dichlorobenzene	50.0	49	98.7	3.59	30	85 - 122
1,2-Dichloroethane	50.0	54	108	0.0185	30	71 - 133
1,2-Dichloropropane	50.0	45	90.8	3.84	30	81 - 122
1,3,5-Trimethylbenzene	50.0	47	94.5	6.51	30	82 - 126
1,3-Dichlorobenzene	50.0	50	101	4.61	30	84 - 124
1,4-Dichlorobenzene	50.0	49	98.6	3.72	30	84 - 124
1,4-Dioxane	1050	380	36.6	3.63	30	10 - 228
2-Butanone	50.0	45	89.5	1.33	30	58 - 147
2-Hexanone	50.0	35	70.3	2.56	30	70 - 139
4-Methyl-2-pentanone	50.0	29	58.0 *	2.35	30	72 - 132
Acetone	50.0	26	52.8	42.3 *	30	36 - 155
Acrolein	50.0	44	88.4	1.53	30	10 - 238
Acrylonitrile	50.0	52	105	3.33	30	66 - 141
Benzene	50.0	55	111	4.31	30	77 - 127
Bromochloromethane	50.0	52	104	1.06	30	74 - 129
Bromodichloromethane	50.0	42	83.3	2.28	30	81 - 124
Bromoform	50.0	42	83.4	2.27	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30956	Laboratory ID:	BK30956-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #		QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	42	83.3		75 - 129
1,1,1-Trichloroethane	50.0	50	99.5		71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	95.7		79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	61	122		58 - 146
1,1,2-Trichloroethane	50.0	48	96.7		83 - 123
1,1-Dichloroethane	50.0	50	99.2		75 - 130
1,1-Dichloroethylene	50.0	64	129		64 - 137
1,2,3-Trichlorobenzene	50.0	51	102		81 - 140
1,2,3-Trichloropropane	50.0	49	98.1		81 - 126
1,2,4-Trichlorobenzene	50.0	50	100		80 - 141
1,2,4-Trimethylbenzene	50.0	44	87.2		84 - 125
1,2-Dibromo-3-chloropropane	50.0	37	74.7		74 - 142
1,2-Dibromoethane	50.0	47	93.5		86 - 123
1,2-Dichlorobenzene	50.0	46	92.8		85 - 122
1,2-Dichloroethane	50.0	56	111		71 - 133
1,2-Dichloropropane	50.0	42	84.5		81 - 122
1,3,5-Trimethylbenzene	50.0	42	84.1		82 - 126
1,3-Dichlorobenzene	50.0	47	94.1		84 - 124
1,4-Dichlorobenzene	50.0	46	92.4		84 - 124
1,4-Dioxane	1050	420	40.3		10 - 228
2-Butanone	50.0	50	101		58 - 147
2-Hexanone	50.0	38	76.8		70 - 139
4-Methyl-2-pentanone	50.0	31	61.0	*	72 - 132
Acetone	50.0	51	101		36 - 155
Acrolein	50.0	130	266	*	10 - 238
Acrylonitrile	50.0	57	115		66 - 141
Benzene	50.0	53	106		77 - 127
Bromochloromethane	50.0	52	104		74 - 129
Bromodichloromethane	50.0	41	82.1		81 - 124
Bromoform	50.0	47	93.8		80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30956	Laboratory ID:	BK30956-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	42	84.5	1.36	30	75 - 129
1,1,1-Trichloroethane	50.0	51	103	3.11	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	96.4	0.750	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	46	91.2	29.0	30	58 - 146
1,1,2-Trichloroethane	50.0	48	96.5	0.207	30	83 - 123
1,1-Dichloroethane	50.0	51	102	2.49	30	75 - 130
1,1-Dichloroethylene	50.0	44	88.7	36.9 *	30	64 - 137
1,2,3-Trichlorobenzene	50.0	52	104	1.93	30	81 - 140
1,2,3-Trichloropropane	50.0	50	99.0	0.913	30	81 - 126
1,2,4-Trichlorobenzene	50.0	51	102	1.66	30	80 - 141
1,2,4-Trimethylbenzene	50.0	46	91.7	4.96	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	37	73.5 *	1.59	30	74 - 142
1,2-Dibromoethane	50.0	46	92.8	0.816	30	86 - 123
1,2-Dichlorobenzene	50.0	48	95.9	3.29	30	85 - 122
1,2-Dichloroethane	50.0	55	110	1.17	30	71 - 133
1,2-Dichloropropane	50.0	43	86.9	2.78	30	81 - 122
1,3,5-Trimethylbenzene	50.0	44	88.4	4.94	30	82 - 126
1,3-Dichlorobenzene	50.0	49	97.6	3.59	30	84 - 124
1,4-Dichlorobenzene	50.0	48	96.0	3.78	30	84 - 124
1,4-Dioxane	1050	390	37.4	7.63	30	10 - 228
2-Butanone	50.0	49	97.8	3.14	30	58 - 147
2-Hexanone	50.0	38	75.8	1.36	30	70 - 139
4-Methyl-2-pentanone	50.0	30	59.7 *	2.15	30	72 - 132
Acetone	50.0	32	65.0	43.6 *	30	36 - 155
Acrolein	50.0	67	134	65.9 *	30	10 - 238
Acrylonitrile	50.0	56	112	2.06	30	66 - 141
Benzene	50.0	54	109	2.33	30	77 - 127
Bromochloromethane	50.0	52	103	1.17	30	74 - 129
Bromodichloromethane	50.0	41	82.3	0.292	30	81 - 124
Bromoform	50.0	45	90.3	3.82	30	80 - 136

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1315
Instrument: VOA No. 5
Calibration: SK30017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23SP8 (25-27.5ft) (23K0580-08)			Lab File ID: V5435286.D			Analyzed: 11/12/23 21:06			
ISTD: Fluorobenzene	259389	5.563	232821	5.562	111	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	808875	8.585	946279	8.585	85	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	364157	11.553	421718	11.553	86	50 - 200	0.0000	+/-0.17	
23SP9 (12.5-15ft) (23K0580-03)			Lab File ID: V5435294.D			Analyzed: 11/13/23 00:46			
ISTD: Fluorobenzene	311928	5.563	232821	5.562	134	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	849547	8.585	946279	8.585	90	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	361557	11.553	421718	11.553	86	50 - 200	0.0000	+/-0.17	
23SP8 (14-16ft) (23K0580-07)			Lab File ID: V5435295.D			Analyzed: 11/13/23 01:13			
ISTD: Fluorobenzene	630587	5.566	232821	5.562	271	50 - 200	0.0040	+/-0.17	*
ISTD: Chlorobenzene-d5	893193	8.585	946279	8.585	94	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	380314	11.552	421718	11.553	90	50 - 200	-0.0010	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1416
Instrument: VOA No. 5
Calibration: SK30017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1416-CCV1)			Lab File ID: V5435301.D			Analyzed: 11/13/23 09:32			
ISTD: Fluorobenzene	236560	5.562				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	1003277	8.585				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	456316	11.553				50 - 200		+/-0.17	
LCS (BK30784-BS1)			Lab File ID: V5435302.D			Analyzed: 11/13/23 10:12			
ISTD: Fluorobenzene	245812	5.563	236560	5.562	104	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	1041244	8.585	1003277	8.585	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	475478	11.553	456316	11.553	104	50 - 200	0.0000	+/-0.17	
LCS Dup (BK30784-BSD1)			Lab File ID: V5435303.D			Analyzed: 11/13/23 10:39			
ISTD: Fluorobenzene	238751	5.566	236560	5.562	101	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1014548	8.585	1003277	8.585	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	462363	11.553	456316	11.553	101	50 - 200	0.0000	+/-0.17	
Blank (BK30784-BLK1)			Lab File ID: V5435304.D			Analyzed: 11/13/23 11:07			
ISTD: Fluorobenzene	232029	5.566	236560	5.562	98	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	979268	8.588	1003277	8.585	98	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	432937	11.553	456316	11.553	95	50 - 200	0.0000	+/-0.17	
Blank (BK30784-BLK2)			Lab File ID: V5435305.D			Analyzed: 11/13/23 11:34			
ISTD: Fluorobenzene	232380	5.566	236560	5.562	98	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	981598	8.585	1003277	8.585	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	432834	11.552	456316	11.553	95	50 - 200	-0.0010	+/-0.17	
23SP10 (12.5-15ft) (23K0580-12)			Lab File ID: V5435307.D			Analyzed: 11/13/23 12:29			
ISTD: Fluorobenzene	34204	5.566	236560	5.562	14	50 - 200	0.0040	+/-0.17	*
ISTD: Chlorobenzene-d5	131815	8.585	1003277	8.585	13	50 - 200	0.0000	+/-0.17	*
ISTD: 1,2-Dichlorobenzene-d4	69461	11.553	456316	11.553	15	50 - 200	0.0000	+/-0.17	*
23SP10 (18-22ft) (23K0580-13)			Lab File ID: V5435308.D			Analyzed: 11/13/23 12:57			
ISTD: Fluorobenzene	1121338	5.572	236560	5.562	474	50 - 200	0.0100	+/-0.17	*
ISTD: Chlorobenzene-d5	1073388	8.588	1003277	8.585	107	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	442743	11.556	456316	11.553	97	50 - 200	0.0030	+/-0.17	
23SP1 (0-2.5ft) (23K0580-15)			Lab File ID: V5435310.D			Analyzed: 11/13/23 13:52			
ISTD: Fluorobenzene	239966	5.566	236560	5.562	101	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1009787	8.585	1003277	8.585	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	422787	11.553	456316	11.553	93	50 - 200	0.0000	+/-0.17	
23SP1 (10-12.5ft) (23K0580-16)			Lab File ID: V5435311.D			Analyzed: 11/13/23 14:19			
ISTD: Fluorobenzene	216759	5.563	236560	5.562	92	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	935674	8.585	1003277	8.585	93	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	417161	11.556	456316	11.553	91	50 - 200	0.0030	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1416
Instrument: VOA No. 5
Calibration: SK30017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23SP1 (22.5-25ft) (23K0580-18)			Lab File ID: V5435313.D			Analyzed: 11/13/23 15:14			
ISTD: Fluorobenzene	250815	5.563	236560	5.562	106	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	1070259	8.585	1003277	8.585	107	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	461889	11.553	456316	11.553	101	50 - 200	0.0000	+/-0.17	
23SP9 (25-27.5ft) (23K0580-04)			Lab File ID: V5435316.D			Analyzed: 11/13/23 16:36			
ISTD: Fluorobenzene	67187	5.563	236560	5.562	28	50 - 200	0.0010	+/-0.17	*
ISTD: Chlorobenzene-d5	294233	8.582	1003277	8.585	29	50 - 200	-0.0030	+/-0.17	*
ISTD: 1,2-Dichlorobenzene-d4	152181	11.553	456316	11.553	33	50 - 200	0.0000	+/-0.17	*
23SP8 (14-16ft) (23K0580-07RE1)			Lab File ID: V5435317.D			Analyzed: 11/13/23 17:04			
ISTD: Fluorobenzene	337936	5.562	236560	5.562	143	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	1037692	8.585	1003277	8.585	103	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	454769	11.553	456316	11.553	100	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1518
Instrument: VOA No. 5
Calibration: SK30017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1518-CCV1)			Lab File ID: V5435351.D			Analyzed: 11/14/23 09:31			
ISTD: Fluorobenzene	227820	5.562				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	979379	8.585				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	453671	11.553				50 - 200		+/-0.17	
LCS (BK30861-BS1)			Lab File ID: V5435352.D			Analyzed: 11/14/23 10:09			
ISTD: Fluorobenzene	227240	5.566	227820	5.562	100	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	991272	8.588	979379	8.585	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	456780	11.553	453671	11.553	101	50 - 200	0.0000	+/-0.17	
LCS Dup (BK30861-BSD1)			Lab File ID: V5435353.D			Analyzed: 11/14/23 10:37			
ISTD: Fluorobenzene	215530	5.566	227820	5.562	95	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	933544	8.588	979379	8.585	95	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	424584	11.553	453671	11.553	94	50 - 200	0.0000	+/-0.17	
Blank (BK30861-BLK1)			Lab File ID: V5435354.D			Analyzed: 11/14/23 11:04			
ISTD: Fluorobenzene	219779	5.566	227820	5.562	96	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	950080	8.588	979379	8.585	97	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	426139	11.553	453671	11.553	94	50 - 200	0.0000	+/-0.17	
Blank (BK30861-BLK2)			Lab File ID: V5435355.D			Analyzed: 11/14/23 11:32			
ISTD: Fluorobenzene	207472	5.566	227820	5.562	91	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	886676	8.585	979379	8.585	91	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	389995	11.553	453671	11.553	86	50 - 200	0.0000	+/-0.17	
23SP10 (0-2.5ft) (23K0580-11)			Lab File ID: V5435365.D			Analyzed: 11/14/23 16:07			
ISTD: Fluorobenzene	399417	5.566	227820	5.562	175	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1133848	8.585	979379	8.585	116	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	477703	11.553	453671	11.553	105	50 - 200	0.0000	+/-0.17	
23SP10 (25-27.5ft) (23K0580-14)			Lab File ID: V5435366.D			Analyzed: 11/14/23 16:34			
ISTD: Fluorobenzene	225554	5.566	227820	5.562	99	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	957944	8.585	979379	8.585	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	409515	11.553	453671	11.553	90	50 - 200	0.0000	+/-0.17	
23SP10 (18-22ft) (23K0580-13RE1)			Lab File ID: V5435367.D			Analyzed: 11/14/23 17:02			
ISTD: Fluorobenzene	72325	5.566	227820	5.562	32	50 - 200	0.0040	+/-0.17	*
ISTD: Chlorobenzene-d5	334839	8.585	979379	8.585	34	50 - 200	0.0000	+/-0.17	*
ISTD: 1,2-Dichlorobenzene-d4	172557	11.553	453671	11.553	38	50 - 200	0.0000	+/-0.17	*
23SP1 (12.5-15ft) (23K0580-17)			Lab File ID: V5435368.D			Analyzed: 11/14/23 17:29			
ISTD: Fluorobenzene	1999743	5.569	227820	5.562	878	50 - 200	0.0070	+/-0.17	*
ISTD: Chlorobenzene-d5	824924	8.585	979379	8.585	84	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	376073	11.556	453671	11.553	83	50 - 200	0.0030	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1528
Instrument: VOA No. 5
Calibration: SK30017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1528-CCV1)			Lab File ID: V5435399.D			Analyzed: 11/15/23 09:45			
ISTD: Fluorobenzene	228329	5.562				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	1015163	8.585				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	472142	11.553				50 - 200		+/-0.17	
LCS (BK30956-BS1)			Lab File ID: V5435400.D			Analyzed: 11/15/23 10:24			
ISTD: Fluorobenzene	235439	5.566	228329	5.562	103	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1063903	8.588	1015163	8.585	105	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	501831	11.553	472142	11.553	106	50 - 200	0.0000	+/-0.17	
LCS Dup (BK30956-BSD1)			Lab File ID: V5435401.D			Analyzed: 11/15/23 10:52			
ISTD: Fluorobenzene	229529	5.566	228329	5.562	101	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1026245	8.585	1015163	8.585	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	474668	11.553	472142	11.553	101	50 - 200	0.0000	+/-0.17	
Blank (BK30956-BLK1)			Lab File ID: V5435402.D			Analyzed: 11/15/23 11:19			
ISTD: Fluorobenzene	223287	5.566	228329	5.562	98	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	991072	8.585	1015163	8.585	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	446815	11.553	472142	11.553	95	50 - 200	0.0000	+/-0.17	
Blank (BK30956-BLK2)			Lab File ID: V5435403.D			Analyzed: 11/15/23 11:46			
ISTD: Fluorobenzene	201777	5.566	228329	5.562	88	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	895923	8.588	1015163	8.585	88	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	403681	11.556	472142	11.553	85	50 - 200	0.0030	+/-0.17	
23SP1 (12.5-15ft) (23K0580-17RE1)			Lab File ID: V5435419.D			Analyzed: 11/15/23 19:04			
ISTD: Fluorobenzene	823909	5.569	228329	5.562	361	50 - 200	0.0070	+/-0.17	*
ISTD: Chlorobenzene-d5	1006600	8.585	1015163	8.585	99	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	454828	11.552	472142	11.553	96	50 - 200	-0.0010	+/-0.17	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30015
Instrument: VOA No. 8
Calibration Date: 11/03/23 08:21

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.252487	16.09627	8.937625	1.502891E-02		0.9994804	0.99	
1,1,1-Trichloroethane	1.676194	12.47571	5.173125	4.838367E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4083268	3.235743	10.28825	2.687498E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.9052299	5.663156	3.00525	0.1026015			SPCC (0.1)	
1,1,2-Trichloroethane	0.1638889	7.168131	7.84425	3.410324E-02			SPCC (0.1)	
1,1-Dichloroethane	1.71564	10.89537	4.19	1.543197E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.319827	7.391632	3.039375	9.240386E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.377977	12.21371	5.320125	5.070292E-02			20	
1,2,3-Trichlorobenzene	0.3191153	6.390812	14.222	1.572699E-02			20	
1,2,3-Trichloropropane	0.1229479	11.51619	10.33525	2.783048E-02			20	
1,2,4,5-Tetramethylbenzene	1.76123	3.678628	12.606	1.890681E-02			20	
1,2,4-Trichlorobenzene	0.4262647	8.03048	13.6465	2.035218E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.304133	6.394563	10.93563	1.679805E-02			20	
1,2-Dibromo-3-chloropropane	6.500658E-02	9.461586	12.753	2.251016E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1535879	8.414096	8.376	2.429507E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.048737	8.569552	11.82787	9.896169E-03			SPCC (0.4)	
1,2-Dichloroethane	0.9439081	9.113743	5.591625	5.066179E-02			SPCC (0.1)	
1,2-Dichloropropane	0.237461	7.037048	6.380375	5.044474E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.365377	5.541924	10.51	2.653807E-02			20	
1,3-Dichlorobenzene	1.215782	13.00782	11.294	6.619869E-03			SPCC (0.6)	
1,3-Dichloropropane	0.28404	7.461732	8.01125	1.482835E-02			20	
1,4-Dichlorobenzene	1.195445	11.38534	11.39713	2.700964E-02			SPCC (0.5)	
1,4-Dioxane	1.12822E-03	28.08788	6.51725	0.0441906		0.9989541	0.99	
2,2-Dichloropropane	1.519586	7.086546	4.7085	6.176185E-02			20	
2-Butanone	6.586937E-02	22.24638	4.763429	8.055623E-02		0.9993472	SPCC (0.1)	
2-Chlorotoluene	2.404439	7.792115	10.44687	2.231395E-02			20	
2-Hexanone	9.722319E-02	7.063256	8.057625	4.675217E-02			SPCC (0.1)	
4-Chlorotoluene	2.059142	4.941344	10.57125	0.0174712			20	
4-Methyl-2-pentanone	0.1237697	7.445146	7.2125	3.829822E-02			SPCC (0.1)	
Acetone	0.2617927	47.91182	3.145	8.380614E-02		0.9992991	SPCC (0.1)	
Acrolein	5.997976E-02	4.101672	2.9925	4.764323E-03			20	
Acrylonitrile	0.1307435	5.561161	3.823125	6.920304E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30017
Instrument: VOA No. 5
Calibration Date: 11/08/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.1768489	28.61763	8.713429	8.51731E-03		0.999193	0.99	
1,1,1-Trichloroethane	1.186102	24.75231	4.956286	3.567608E-02		0.9998267	SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.3648293	10.26681	10.00814	9.206047E-03			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.7257799	5.261691	2.837714	6.135319E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.15437	10.80438	7.590143	2.123207E-02			SPCC (0.1)	
1,1-Dichloroethane	1.55934	12.55066	3.961	8.955549E-03			SPCC (0.2)	
1,1-Dichloroethylene	0.8507014	9.392211	2.824286	5.676757E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.310081	11.46433	5.102857	4.300413E-02			20	
1,2,3-Trichlorobenzene	0.5923596	13.87398	13.948	1.629964E-02			20	
1,2,3-Trichloropropane	0.1121159	9.351959	10.07043	1.093527E-02			20	
1,2,4,5-Tetramethylbenzene	1.91635	14.89101	12.42843	1.603686E-02			20	
1,2,4-Trichlorobenzene	0.6579711	16.71222	13.40171	1.945018E-02		0.9999669	SPCC (0.2)	
1,2,4-Trimethylbenzene	2.026112	10.14435	10.75243	3.29007E-03			20	
1,2-Dibromo-3-chloropropane	4.332248E-02	49.46278	12.46257	6.677881E-03		0.9977581	SPCC (0.05)	
1,2-Dibromoethane	0.1393584	17.60427	8.103857	2.973502E-02		0.9996787	SPCC (0.1)	
1,2-Dichlorobenzene	1.033858	7.349704	11.57543	8.633041E-03			SPCC (0.4)	
1,2-Dichloroethane	0.8056448	7.555565	5.330571	2.173974E-02			SPCC (0.1)	
1,2-Dichloropropane	0.217939	9.207201	6.151428	2.951707E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.128144	8.846162	10.33786	1.975266E-02			20	
1,3-Dichlorobenzene	1.163597	10.75797	11.06443	1.942749E-02			SPCC (0.6)	
1,3-Dichloropropane	0.2749346	9.787881	7.755	1.150606E-02			20	
1,4-Dichlorobenzene	1.14677	10.46928	11.18257	1.820291E-02			SPCC (0.5)	
1,4-Dioxane	1.468386E-03	14.37539	6.229714	3.647997E-02			20	
2,2-Dichloropropane	0.9434686	35.6689	4.492429	2.029412E-02		0.9994242	0.99	
2-Butanone	7.314443E-02	16.86072	4.476857	3.174473E-02		0.9991236	SPCC (0.1)	
2-Chlorotoluene	1.804776	7.235971	10.22886	1.472953E-02			20	
2-Hexanone	8.447907E-02	24.86589	7.802714	2.970713E-02		0.9990533	SPCC (0.1)	
4-Chlorotoluene	1.978971	7.036173	10.36429	2.422137E-02			20	
4-Methyl-2-pentanone	0.1313826	24.62494	6.961429	1.701935E-02		0.9992561	SPCC (0.1)	
Acetone	0.1274347	9.775239	2.876857	8.886638E-02			SPCC (0.1)	
Acrolein	3.586023E-02	21.29308	2.736	0.1098843		0.9994055	0.99	
Acrylonitrile	0.176318	14.35426	3.508428	3.737969E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30017
Instrument: VOA No. 5
Calibration Date: 11/08/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.862998	7.888703	5.283857	3.028554E-02			SPCC (0.5)	
Bromobenzene	0.8516796	7.809174	10.016	6.894089E-03			20	
Bromochloromethane	0.5758335	9.468282	4.702714	3.903395E-02			20	
Bromodichloromethane	0.2082164	30.18485	6.402	3.042352E-03		0.9994183	SPCC (0.2)	
Bromoform	6.436572E-02	50.66359	9.489714	2.279647E-02		0.9981781	SPCC (0.1)	
Bromomethane	6.051231E-02	7.373803	1.969286	8.074902E-02			SPCC (0.1)	
Carbon disulfide	2.170559	35.46099	3.036572	6.550458E-02		0.9995215	SPCC (0.1)	
Carbon tetrachloride	1.018982	29.22703	5.105143	3.102495E-02		0.9996981	SPCC (0.1)	
Chlorobenzene	0.6685799	8.829923	8.617	2.167338E-02			SPCC (0.5)	
Chloroethane	0.2967056	8.690116	2.068286	0.1333951			SPCC (0.1)	
Chloroform	1.447335	12.55964	4.797	1.963815E-02			SPCC (0.2)	
Chloromethane	0.849522	5.245163	1.595	2.047963E-02			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.30469	11.04707	4.483714	0.0405029			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.2752789	34.26645	6.826	1.822498E-02		0.9992954	SPCC (0.2)	
Cyclohexane	1.662531	8.179766	5.030286	2.577946E-02			SPCC (0.1)	
Dibromochloromethane	0.1290931	40.56127	7.979714	1.967868E-02		0.9988861	SPCC (0.1)	
Dibromomethane	9.980825E-02	14.1788	6.233	2.617731E-02			20	
Dichlorodifluoromethane	0.8407871	10.10344	1.434	2.266512E-02			SPCC (0.1)	
Ethyl Benzene	1.168762	8.827449	8.720857	0.0212444			SPCC (0.1)	
Hexachlorobutadiene	0.4881431	18.60453	13.57629	2.111447E-02		0.9998588	0.99	
Isopropylbenzene	2.662203	11.30985	9.675	5.871126E-03			SPCC (0.1)	
Methyl acetate	0.4089222	5.424375	3.171571	6.236366E-02			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	1.475749	19.67872	3.558571	0.0305501		0.9995389	SPCC (0.1)	
Methylcyclohexane	0.5238347	8.814988	6.139286	3.168167E-02			SPCC (0.1)	
Methylene chloride	1.034505	5.723256	3.296	6.171124E-03			SPCC (0.1)	
Naphthalene	1.179089	20.74486	13.69229	1.906761E-02		0.9998195	0.99	
n-Butylbenzene	2.694491	4.526491	11.572	2.326625E-02			20	
n-Propylbenzene	3.202307	7.314583	10.13486	2.450744E-02			20	
o-Xylene	0.8612993	11.20654	9.273	1.026723E-02			SPCC (0.3)	
p- & m- Xylenes	0.883358	7.961848	8.861714	1.752526E-02			SPCC (0.1)	
p-Diethylbenzene	1.397222	7.879663	11.54557	1.081057E-02			20	
p-Ethyltoluene	2.411533	7.71937	10.27214	8.369111E-03			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.04	-9.6	30.00
1,1,1-Trichloroethane	10.0	9.87	-1.3	30.00
1,1,2,2-Tetrachloroethane	10.0	10.2	2.1	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	2.1	30.00
1,1,2-Trichloroethane	10.0	9.60	-4.0	30.00
1,1-Dichloroethane	10.0	9.18	-8.2	30.00
1,1-Dichloroethylene	10.0	10.0	0.2	30.00
1,2,3-Trichlorobenzene	10.0	8.85	-11.5	30.00
1,2,3-Trichloropropane	10.0	10.0	0.2	30.00
1,2,4-Trichlorobenzene	10.0	9.01	-9.9	30.00
1,2,4-Trimethylbenzene	10.0	10.1	1.1	30.00
1,2-Dibromo-3-chloropropane	10.0	10.2	2.4	30.00
1,2-Dibromoethane	10.0	9.89	-1.1	30.00
1,2-Dichlorobenzene	10.0	9.60	-4.0	30.00
1,2-Dichloroethane	10.0	9.75	-2.5	30.00
1,2-Dichloropropane	10.0	9.75	-2.5	30.00
1,3,5-Trimethylbenzene	10.0	9.99	-0.1	30.00
1,3-Dichlorobenzene	10.0	9.49	-5.1	30.00
1,4-Dichlorobenzene	10.0	9.40	-6.0	30.00
1,4-Dioxane	210	173	-17.4	30.00
2-Butanone	10.0	9.03	-9.7	30.00
2-Hexanone	10.0	8.14	-18.6	30.00
4-Methyl-2-pentanone	10.0	9.01	-9.9	30.00
Acetone	10.0	16.2	61.8 *	30.00
Acrolein	10.0	11.1	10.6	30.00
Acrylonitrile	10.0	9.86	-1.4	30.00
Benzene	10.0	9.96	-0.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.88	-1.2	30.00
sec-Butylbenzene	10.0	9.82	-1.8	30.00
Styrene	10.0	9.86	-1.4	30.00
tert-Butyl alcohol (TBA)	50.0	47.9	-4.2	30.00
tert-Butylbenzene	10.0	9.77	-2.3	30.00
Tetrachloroethylene	10.0	4.90	-51.0 *	30.00
Toluene	10.0	9.94	-0.6	30.00
trans-1,2-Dichloroethylene	10.0	9.65	-3.5	30.00
trans-1,3-Dichloropropylene	10.0	9.46	-5.4	30.00
trans-1,4-dichloro-2-butene	10.0	9.28	-7.2	30.00
Trichloroethylene	10.0	9.52	-4.8	30.00
Trichlorofluoromethane	10.0	10.9	8.8	30.00
Vinyl Chloride	10.0	10.8	7.8	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30017
Laboratory ID: S3K0916-SCV1
Sequence: S3K0916
Standard ID: S23K115

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	50.0	41.2	-17.5	30.00
1,1,1-Trichloroethane	50.0	46.4	-7.1	30.00
1,1,2,2-Tetrachloroethane	50.0	46.9	-6.2	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	49.3	-1.4	30.00
1,1,2-Trichloroethane	50.0	44.6	-10.9	30.00
1,1-Dichloroethane	50.0	45.8	-8.5	30.00
1,1-Dichloroethylene	50.0	48.8	-2.3	30.00
1,2,3-Trichlorobenzene	50.0	47.3	-5.4	30.00
1,2,3-Trichloropropane	50.0	45.7	-8.6	30.00
1,2,4-Trichlorobenzene	50.0	48.2	-3.6	30.00
1,2,4-Trimethylbenzene	50.0	52.0	3.9	30.00
1,2-Dibromo-3-chloropropane	50.0	31.5	-37.0 *	30.00
1,2-Dibromoethane	50.0	46.0	-8.1	30.00
1,2-Dichlorobenzene	50.0	46.8	-6.4	30.00
1,2-Dichloroethane	50.0	44.2	-11.6	30.00
1,2-Dichloropropane	50.0	49.6	-0.9	30.00
1,3,5-Trimethylbenzene	50.0	52.3	4.7	30.00
1,3-Dichlorobenzene	50.0	47.2	-5.6	30.00
1,4-Dichlorobenzene	50.0	46.3	-7.4	30.00
1,4-Dioxane	1050	948	-9.7	30.00
2-Butanone	50.0	41.2	-17.5	30.00
2-Hexanone	50.0	34.4	-31.2 *	30.00
4-Methyl-2-pentanone	50.0	33.2	-33.7 *	30.00
Acetone	50.0	85.8	71.7 *	30.00
Acrolein	50.0	41.6	-16.9	30.00
Acrylonitrile	50.0	43.3	-13.3	30.00
Benzene	50.0	48.6	-2.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30017
Laboratory ID: S3K0916-SCV1
Sequence: S3K0916
Standard ID: S23K115

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	50.0	44.9	-10.3	30.00
Bromodichloromethane	50.0	42.1	-15.8	30.00
Bromoform	50.0	33.8	-32.4 *	30.00
Bromomethane	50.0	49.0	-1.9	30.00
Carbon disulfide	50.0	44.9	-10.2	30.00
Carbon tetrachloride	50.0	44.9	-10.3	30.00
Chlorobenzene	50.0	47.4	-5.2	30.00
Chloroethane	50.0	58.8	17.7	30.00
Chloroform	50.0	46.1	-7.9	30.00
Chloromethane	50.0	54.4	8.7	30.00
cis-1,2-Dichloroethylene	50.0	47.6	-4.8	30.00
cis-1,3-Dichloropropylene	50.0	39.8	-20.5	30.00
Cyclohexane	50.0	53.7	7.4	30.00
Dibromochloromethane	50.0	38.0	-23.9	30.00
Dibromomethane	50.0	44.6	-10.7	30.00
Dichlorodifluoromethane	50.0	51.5	3.0	30.00
Ethyl Benzene	50.0	50.6	1.2	30.00
Hexachlorobutadiene	50.0	51.8	3.6	30.00
Isopropylbenzene	50.0	53.0	6.0	30.00
Methyl acetate	50.0	40.8	-18.5	30.00
Methyl tert-butyl ether (MTBE)	50.0	47.2	-5.6	30.00
Methylcyclohexane	50.0	50.2	0.4	30.00
Methylene chloride	50.0	42.6	-14.8	30.00
n-Butylbenzene	50.0	52.7	5.3	30.00
n-Propylbenzene	50.0	51.8	3.7	30.00
o-Xylene	50.0	49.0	-1.9	30.00
p- & m- Xylenes	100	99.6	-0.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30017
Laboratory ID: S3K0916-SCV1
Sequence: S3K0916
Standard ID: S23K115

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	50.0	53.2	6.4	30.00
sec-Butylbenzene	50.0	53.1	6.3	30.00
Styrene	50.0	49.4	-1.1	30.00
tert-Butyl alcohol (TBA)	250	227	-9.4	30.00
tert-Butylbenzene	50.0	49.0	-1.9	30.00
Tetrachloroethylene	50.0	34.3	-31.3 *	30.00
Toluene	50.0	49.8	-0.4	30.00
trans-1,2-Dichloroethylene	50.0	48.6	-2.9	30.00
trans-1,3-Dichloropropylene	50.0	38.1	-23.8	30.00
trans-1,4-dichloro-2-butene	50.0	46.0	-8.1	30.00
Trichloroethylene	50.0	50.1	0.3	30.00
Trichlorofluoromethane	50.0	51.8	3.6	30.00
Vinyl Chloride	50.0	50.3	0.6	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435273.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1315	Injection Date:	11/12/23
Lab Sample ID:	S3K1315-CCV1	Injection Time:	15:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	50.0	41.9	0.1768489	0.1939576		-16.2	20
1,1,1-Trichloroethane	A	50.0	48.4	1.186102	1.303177	0.1	-3.3	20
1,1,2,2-Tetrachloroethane	A	50.0	46.7	0.3648293	0.370679	0.3	1.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	57.8	0.7257799	1.010742	0.1	39.3	20 *
1,1,2-Trichloroethane	A	50.0	47.8	0.15437	0.1520514	0.1	-1.5	20
1,1-Dichloroethane	A	50.0	50.4	1.55934	1.621185	0.2	4.0	20
1,1-Dichloroethylene	A	50.0	60.6	0.8507014	1.282298	0.1	50.7	20 *
1,2,3-Trichlorobenzene	A	50.0	50.3	0.5923596	0.5877103		-0.8	20
1,2,3-Trichloropropane	A	50.0	48.0	0.1121159	0.1094926		-2.3	20
1,2,4-Trichlorobenzene	A	50.0	50.0	0.6579711	0.6864706	0.2	-0.02	20
1,2,4-Trimethylbenzene	A	50.0	47.7	2.026112	2.023418		-0.1	20
1,2-Dibromo-3-chloropropane	A	50.0	33.8	4.332248E-02	0.043503	0.05 *	-32.4	20 *
1,2-Dibromoethane	A	50.0	43.8	0.1393584	0.1405209	0.1	-12.5	20
1,2-Dichlorobenzene	A	50.0	49.3	1.033858	1.02897	0.4	-0.5	20
1,2-Dichloroethane	A	50.0	50.9	0.8056448	0.793571	0.1	-1.5	20
1,2-Dichloropropane	A	50.0	45.1	0.217939	0.2120897	0.1	-2.7	20
1,3,5-Trimethylbenzene	A	50.0	46.8	2.128144	2.113296		-0.7	20
1,3-Dichlorobenzene	A	50.0	51.4	1.163597	1.179302	0.6	1.3	20
1,4-Dichlorobenzene	A	50.0	50.8	1.14677	1.157169	0.5	0.9	20
1,4-Dioxane	A	1000	830	1.468386E-03	1.430181E-03		-2.6	20
2-Butanone	A	50.0	41.2	7.314443E-02	7.179335E-02	0.1	-17.6	20
2-Hexanone	A	50.0	36.7	8.447907E-02	8.332849E-02	0.1	-26.6	20 *
4-Methyl-2-pentanone	A	50.0	33.6	0.1313826	0.1300209	0.1	-32.8	20 *
Acetone	A	50.0	50.5	0.1274347	0.1776601	0.1	39.4	20 *
Acrolein	A	50.0	34.4	3.586023E-02	0.0363627		-31.3	20 *
Acrylonitrile	A	50.0	47.2	0.176318	0.1667719		-5.4	20
Benzene	A	50.0	51.0	3.862998	4.011593	0.5	3.8	20
Bromochloromethane	A	50.0	50.2	0.5758335	0.5836243		1.4	20
Bromodichloromethane	A	50.0	42.3	0.2082164	0.2290075	0.2	-15.5	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435273.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1315	Injection Date:	11/12/23
Lab Sample ID:	S3K1315-CCV1	Injection Time:	15:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	40.6	6.436572E-02	7.681878E-02	0.1	-18.9	20	
Bromomethane	A	50.0	38.6	6.051231E-02	0.4773023	0.1	689	20	*
Carbon disulfide	A	50.0	44.8	2.170559	2.702557	0.1	-10.3	20	
Carbon tetrachloride	A	50.0	48.8	1.018982	1.185778	0.1	-2.4	20	
Chlorobenzene	A	50.0	51.2	0.6685799	0.6748961	0.5	0.9	20	
Chloroethane	A	50.0	36.5	0.2967056	0.3848923	0.1	29.7	20	*
Chloroform	A	50.0	53.0	1.447335	1.520215	0.2	5.0	20	
Chloromethane	A	50.0	34.2	0.849522	0.565778	0.1	-33.4	20	*
cis-1,2-Dichloroethylene	A	50.0	50.2	1.30469	1.365341	0.1	4.6	20	
cis-1,3-Dichloropropylene	A	50.0	40.3	0.2752789	0.2982979	0.2	-19.3	20	
Cyclohexane	A	50.0	52.1	1.662531	1.785552	0.1	7.4	20	
Dibromochloromethane	A	50.0	42.0	0.1290931	0.1474787	0.1	-16.0	20	
Dibromomethane	A	50.0	47.1	9.980825E-02	9.906381E-02		-0.7	20	
Dichlorodifluoromethane	A	50.0	42.7	0.8407871	0.8566409	0.1	1.9	20	
Ethyl Benzene	A	50.0	47.7	1.168762	1.201592	0.1	2.8	20	
Hexachlorobutadiene	A	50.0	52.7	0.4881431	0.4975647		5.5	20	
Isopropylbenzene	A	50.0	50.0	2.662203	2.670123	0.1	0.3	20	
Methyl acetate	A	50.0	48.5	0.4089222	0.3522534	0.1	-13.9	20	
Methyl tert-butyl ether (MTBE)	A	50.0	38.5	1.475749	1.403533	0.1	-23.1	20	*
Methylcyclohexane	A	50.0	43.7	0.5238347	0.5233425	0.1	-0.09	20	
Methylene chloride	A	50.0	49.0	1.034505	0.9932996	0.1	-4.0	20	
n-Butylbenzene	A	50.0	47.3	2.694491	2.748035		2.0	20	
n-Propylbenzene	A	50.0	49.4	3.202307	3.220541		0.6	20	
o-Xylene	A	50.0	44.1	0.8612993	0.8877044	0.3	3.1	20	
p- & m- Xylenes	A	100	96.9	0.883358	0.9131599	0.1	3.4	20	
p-Isopropyltoluene	A	50.0	48.4	2.449024	2.474879		1.1	20	
sec-Butylbenzene	A	50.0	49.7	2.968845	2.99664		0.9	20	
Styrene	A	50.0	42.6	0.6725389	0.7075176	0.3	5.2	20	
tert-Butyl alcohol (TBA)	A	250	161	3.264256E-02	2.971296E-02		-35.4	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435273.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1315	Injection Date:	11/12/23
Lab Sample ID:	S3K1315-CCV1	Injection Time:	15:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	51.1	2.054007	2.15628		5.0	20	
Tetrachloroethylene	A	50.0	44.0	0.4288938	0.3524014	0.2	-12.0	20	
Toluene	A	50.0	46.9	1.076867	1.081303	0.4	0.4	20	
trans-1,2-Dichloroethylene	A	50.0	50.3	1.265385	1.336297	0.1	0.6	20	
trans-1,3-Dichloropropylene	A	50.0	36.5	0.1953299	0.2134444	0.1	-27.0	20	*
trans-1,4-dichloro-2-butene	A	50.0	42.7	0.3639574	0.3513462		-14.6	20	
Trichloroethylene	A	50.0	45.9	0.2598047	0.2566463	0.2	-1.2	20	
Trichlorofluoromethane	A	50.0	43.1	1.097241	1.161223	0.1	5.8	20	
Vinyl Chloride	A	50.0	36.2	0.7000698	0.6574879	0.1	-6.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841265.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K1413	Injection Date:	11/13/23
Lab Sample ID:	S3K1413-CCV1	Injection Time:	10:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	9.06	0.252487	0.2413094		-9.4	20
1,1,1-Trichloroethane	A	10.0	10.2	1.676194	1.71656	0.1	2.4	20
1,1,2,2-Tetrachloroethane	A	10.0	9.83	0.4083268	0.4013089	0.3	-1.7	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.43	0.9052299	0.8537399	0.1	-5.7	20
1,1,2-Trichloroethane	A	10.0	9.57	0.1638889	0.1568989	0.1	-4.3	20
1,1-Dichloroethane	A	10.0	9.60	1.71564	1.646316	0.2	-4.0	20
1,1-Dichloroethylene	A	10.0	8.99	1.319827	1.186698	0.1	-10.1	20
1,2,3-Trichlorobenzene	A	10.0	8.87	0.3191153	0.283114		-11.3	20
1,2,3-Trichloropropane	A	10.0	9.86	0.1229479	0.1212807		-1.4	20
1,2,4-Trichlorobenzene	A	10.0	8.91	0.4262647	0.3798749	0.2	-10.9	20
1,2,4-Trimethylbenzene	A	10.0	9.87	2.304133	2.274797		-1.3	20
1,2-Dibromo-3-chloropropane	A	10.0	10.3	6.500658E-02	6.676317E-02	0.05	2.7	20
1,2-Dibromoethane	A	10.0	9.65	0.1535879	0.1481753	0.1	-3.5	20
1,2-Dichlorobenzene	A	10.0	9.42	1.048737	0.9882693	0.4	-5.8	20
1,2-Dichloroethane	A	10.0	10.7	0.9439081	1.013572	0.1	7.4	20
1,2-Dichloropropane	A	10.0	9.19	0.237461	0.2183279	0.1	-8.1	20
1,3,5-Trimethylbenzene	A	10.0	9.81	2.365377	2.320609		-1.9	20
1,3-Dichlorobenzene	A	10.0	9.36	1.215782	1.138352	0.6	-6.4	20
1,4-Dichlorobenzene	A	10.0	9.32	1.195445	1.114173	0.5	-6.8	20
1,4-Dioxane	A	200	175	1.12822E-03	1.217089E-03		-12.7	20
2-Butanone	A	10.0	9.87	6.586937E-02	0.0649952	0.1 *	-1.3	20
2-Hexanone	A	10.0	8.27	9.722319E-02	8.044603E-02	0.1	-17.3	20
4-Methyl-2-pentanone	A	10.0	8.40	0.1237697	0.1040057	0.1	-16.0	20
Acetone	A	10.0	7.49	0.2617927	0.1497713	0.1	-25.1	20 *
Acrolein	A	10.0	7.79	5.997976E-02	4.673703E-02		-22.1	20 *
Acrylonitrile	A	10.0	8.98	0.1307435	0.1174127		-10.2	20
Benzene	A	10.0	9.84	3.916385	3.854755	0.5	-1.6	20
Bromochloromethane	A	10.0	9.70	0.5664581	0.5492331		-3.0	20
Bromodichloromethane	A	10.0	9.85	0.3228941	0.3179073	0.2	-1.5	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841265.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K1413	Injection Date:	11/13/23
Lab Sample ID:	S3K1413-CCV1	Injection Time:	10:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	8.55	0.104662	0.1007392	0.1	-14.5	20	
Bromomethane	A	10.0	6.30	0.9829663	0.6193873	0.1	-37.0	20	*
Carbon disulfide	A	10.0	8.63	2.28485	1.970993	0.1	-13.7	20	
Carbon tetrachloride	A	10.0	10.1	1.471433	1.483035	0.1	0.8	20	
Chlorobenzene	A	10.0	9.63	0.7242045	0.697079	0.5	-3.7	20	
Chloroethane	A	10.0	9.65	0.9008924	0.869071	0.1	-3.5	20	
Chloroform	A	10.0	10.0	1.677331	1.679133	0.2	0.1	20	
Chloromethane	A	10.0	8.52	1.118135	0.95311	0.1	-14.8	20	
cis-1,2-Dichloroethylene	A	10.0	9.96	1.45028	1.44492	0.1	-0.4	20	
cis-1,3-Dichloropropylene	A	10.0	9.69	0.3896441	0.3776807	0.2	-3.1	20	
Cyclohexane	A	10.0	9.43	1.69539	1.598112	0.1	-5.7	20	
Dibromochloromethane	A	10.0	9.51	0.2044674	0.1943817	0.1	-4.9	20	
Dibromomethane	A	10.0	9.87	0.1124353	0.110918		-1.3	20	
Dichlorodifluoromethane	A	10.0	8.14	0.9597646	0.7812496	0.1	-18.6	20	
Ethyl Benzene	A	10.0	9.87	1.349986	1.332129	0.1	-1.3	20	
Hexachlorobutadiene	A	10.0	9.15	0.1196686	0.1094405		-8.5	20	
Isopropylbenzene	A	10.0	9.66	3.043018	2.938468	0.1	-3.4	20	
Methyl acetate	A	10.0	8.70	0.3475983	0.274109	0.1	-13.0	20	
Methyl tert-butyl ether (MTBE)	A	10.0	9.84	2.055289	2.021589	0.1	-1.6	20	
Methylcyclohexane	A	10.0	9.59	0.4933143	0.4729573	0.1	-4.1	20	
Methylene chloride	A	10.0	9.16	0.9924044	0.9088551	0.1	-8.4	20	
n-Butylbenzene	A	10.0	10.8	0.4197883	0.4534259		8.0	20	
n-Propylbenzene	A	10.0	9.76	3.517517	3.432438		-2.4	20	
o-Xylene	A	10.0	9.97	1.0445	1.040935	0.3	-0.3	20	
p- & m- Xylenes	A	20.0	20.2	1.073196	1.081057	0.1	0.7	20	
p-Isopropyltoluene	A	10.0	9.70	2.33792	2.268314		-3.0	20	
sec-Butylbenzene	A	10.0	9.78	2.778702	2.717904		-2.2	20	
Styrene	A	10.0	9.92	0.8082976	0.8015464	0.3	-0.8	20	
tert-Butyl alcohol (TBA)	A	50.0	49.9	5.388464E-02	5.376775E-02		-0.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841265.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K1413	Injection Date:	11/13/23
Lab Sample ID:	S3K1413-CCV1	Injection Time:	10:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.44	2.025551	1.912014		-5.6	20	
Tetrachloroethylene	A	10.0	6.62	0.4668419	0.3696014	0.2	-33.8	20	*
Toluene	A	10.0	9.87	1.191132	1.175341	0.4	-1.3	20	
trans-1,2-Dichloroethylene	A	10.0	9.49	1.284921	1.218841	0.1	-5.1	20	
trans-1,3-Dichloropropylene	A	10.0	10.1	0.3172758	0.3193392	0.1	0.7	20	
trans-1,4-dichloro-2-butene	A	10.0	10.1	0.3803903	0.3838933		0.9	20	
Trichloroethylene	A	10.0	9.38	0.2917918	0.2735766	0.2	-6.2	20	
Trichlorofluoromethane	A	10.0	11.4	1.980224	2.247438	0.1	13.5	20	
Vinyl Chloride	A	10.0	8.89	1.220025	1.084394	0.1	-11.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435301.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1416	Injection Date:	11/13/23
Lab Sample ID:	S3K1416-CCV1	Injection Time:	09:32

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	50.0	43.4	0.1768489	0.2009724		-13.2	20	
1,1,1-Trichloroethane	A	50.0	51.5	1.186102	1.38846	0.1	2.9	20	
1,1,2,2-Tetrachloroethane	A	50.0	50.0	0.3648293	0.3965695	0.3	8.7	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	61.2	0.7257799	1.070506	0.1	47.5	20	*
1,1,2-Trichloroethane	A	50.0	51.3	0.15437	0.1631304	0.1	5.7	20	
1,1-Dichloroethane	A	50.0	53.7	1.55934	1.729088	0.2	10.9	20	
1,1-Dichloroethylene	A	50.0	64.5	0.8507014	1.36351	0.1	60.3	20	*
1,2,3-Trichlorobenzene	A	50.0	53.8	0.5923596	0.6290049		6.2	20	
1,2,3-Trichloropropane	A	50.0	51.9	0.1121159	0.1185998		5.8	20	
1,2,4-Trichlorobenzene	A	50.0	52.0	0.6579711	0.7147985	0.2	4.0	20	
1,2,4-Trimethylbenzene	A	50.0	47.2	2.026112	2.001731		-1.2	20	
1,2-Dibromo-3-chloropropane	A	50.0	37.8	4.332248E-02	4.877541E-02	0.05	-24.3	20	*
1,2-Dibromoethane	A	50.0	48.2	0.1393584	0.1549133	0.1	-3.6	20	
1,2-Dichlorobenzene	A	50.0	50.7	1.033858	1.057484	0.4	2.3	20	
1,2-Dichloroethane	A	50.0	55.0	0.8056448	0.8578585	0.1	6.5	20	
1,2-Dichloropropane	A	50.0	46.4	0.217939	0.2181053	0.1	0.08	20	
1,3,5-Trimethylbenzene	A	50.0	46.1	2.128144	2.078498		-2.3	20	
1,3-Dichlorobenzene	A	50.0	51.6	1.163597	1.185893	0.6	1.9	20	
1,4-Dichlorobenzene	A	50.0	51.5	1.14677	1.172871	0.5	2.3	20	
1,4-Dioxane	A	1000	924	1.468386E-03	1.593528E-03		8.5	20	
2-Butanone	A	50.0	49.1	7.314443E-02	8.558928E-02	0.1	-1.8	20	
2-Hexanone	A	50.0	41.7	8.447907E-02	9.461395E-02	0.1	-16.7	20	
4-Methyl-2-pentanone	A	50.0	38.0	0.1313826	0.1466245	0.1	-24.1	20	*
Acetone	A	50.0	57.6	0.1274347	0.2019023	0.1	58.4	20	*
Acrolein	A	50.0	82.0	3.586023E-02	8.674755E-02		63.9	20	*
Acrylonitrile	A	50.0	55.6	0.176318	0.1961828		11.3	20	
Benzene	A	50.0	53.9	3.862998	4.24037	0.5	9.8	20	
Bromochloromethane	A	50.0	55.0	0.5758335	0.6391106		11.0	20	
Bromodichloromethane	A	50.0	43.3	0.2082164	0.2344338	0.2	-13.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435301.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1416	Injection Date:	11/13/23
Lab Sample ID:	S3K1416-CCV1	Injection Time:	09:32

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	44.5	6.436572E-02	8.453996E-02	0.1	-11.0	20	
Bromomethane	A	50.0	38.6	6.051231E-02	0.4768642	0.1	688	20	*
Carbon disulfide	A	50.0	46.6	2.170559	2.810484	0.1	-6.8	20	
Carbon tetrachloride	A	50.0	50.8	1.018982	1.234249	0.1	1.5	20	
Chlorobenzene	A	50.0	52.2	0.6685799	0.688447	0.5	3.0	20	
Chloroethane	A	50.0	36.6	0.2967056	0.3854709	0.1	29.9	20	*
Chloroform	A	50.0	56.3	1.447335	1.614123	0.2	11.5	20	
Chloromethane	A	50.0	33.7	0.849522	0.556975	0.1	-34.4	20	*
cis-1,2-Dichloroethylene	A	50.0	53.3	1.30469	1.449201	0.1	11.1	20	
cis-1,3-Dichloropropylene	A	50.0	42.4	0.2752789	0.3137199	0.2	-15.2	20	
Cyclohexane	A	50.0	52.6	1.662531	1.804189	0.1	8.5	20	
Dibromochloromethane	A	50.0	44.9	0.1290931	0.1579793	0.1	-10.2	20	
Dibromomethane	A	50.0	50.2	9.980825E-02	0.1055382		5.7	20	
Dichlorodifluoromethane	A	50.0	42.0	0.8407871	0.8421584	0.1	0.2	20	
Ethyl Benzene	A	50.0	47.7	1.168762	1.201253	0.1	2.8	20	
Hexachlorobutadiene	A	50.0	52.8	0.4881431	0.4984967		5.6	20	
Isopropylbenzene	A	50.0	49.3	2.662203	2.636524	0.1	-1.0	20	
Methyl acetate	A	50.0	55.8	0.4089222	0.4056392	0.1	-0.8	20	
Methyl tert-butyl ether (MTBE)	A	50.0	46.0	1.475749	1.679071	0.1	-8.1	20	
Methylcyclohexane	A	50.0	43.9	0.5238347	0.5253793	0.1	0.3	20	
Methylene chloride	A	50.0	50.9	1.034505	1.033133	0.1	-0.1	20	
n-Butylbenzene	A	50.0	45.9	2.694491	2.667121		-1.0	20	
n-Propylbenzene	A	50.0	48.1	3.202307	3.135123		-2.1	20	
o-Xylene	A	50.0	44.6	0.8612993	0.8979484	0.3	4.3	20	
p- & m- Xylenes	A	100	96.8	0.883358	0.9118907	0.1	3.2	20	
p-Isopropyltoluene	A	50.0	47.9	2.449024	2.445544		-0.1	20	
sec-Butylbenzene	A	50.0	48.6	2.968845	2.933529		-1.2	20	
Styrene	A	50.0	43.5	0.6725389	0.7214777	0.3	7.3	20	
tert-Butyl alcohol (TBA)	A	250	209	3.264256E-02	3.885864E-02		-16.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435301.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1416	Injection Date:	11/13/23
Lab Sample ID:	S3K1416-CCV1	Injection Time:	09:32

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	50.0	2.054007	2.111361		2.8	20	
Tetrachloroethylene	A	50.0	47.7	0.4288938	0.3831604	0.2	-4.6	20	
Toluene	A	50.0	47.3	1.076867	1.088705	0.4	1.1	20	
trans-1,2-Dichloroethylene	A	50.0	52.6	1.265385	1.39609	0.1	5.1	20	
trans-1,3-Dichloropropylene	A	50.0	39.6	0.1953299	0.231616	0.1	-20.8	20	*
trans-1,4-dichloro-2-butene	A	50.0	46.7	0.3639574	0.3843784		-6.6	20	
Trichloroethylene	A	50.0	46.3	0.2598047	0.2591398	0.2	-0.3	20	
Trichlorofluoromethane	A	50.0	42.2	1.097241	1.137441	0.1	3.7	20	
Vinyl Chloride	A	50.0	35.6	0.7000698	0.6458362	0.1	-7.7	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435351.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1518	Injection Date:	11/14/23
Lab Sample ID:	S3K1518-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	50.0	41.3	0.1768489	0.1908628		-17.5	20	
1,1,1-Trichloroethane	A	50.0	49.8	1.186102	1.341436	0.1	-0.5	20	
1,1,2,2-Tetrachloroethane	A	50.0	47.1	0.3648293	0.3737731	0.3	2.5	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	43.4	0.7257799	0.7599552	0.1	4.7	20	
1,1,2-Trichloroethane	A	50.0	48.7	0.15437	0.1548471	0.1	0.3	20	
1,1-Dichloroethane	A	50.0	51.1	1.55934	1.645567	0.2	5.5	20	
1,1-Dichloroethylene	A	50.0	40.7	0.8507014	0.8604205	0.1	1.1	20	
1,2,3-Trichlorobenzene	A	50.0	50.6	0.5923596	0.5914528		-0.2	20	
1,2,3-Trichloropropane	A	50.0	48.8	0.1121159	0.1114089		-0.6	20	
1,2,4-Trichlorobenzene	A	50.0	48.8	0.6579711	0.670261	0.2	-2.3	20	
1,2,4-Trimethylbenzene	A	50.0	44.2	2.026112	1.875546		-7.4	20	
1,2-Dibromo-3-chloropropane	A	50.0	36.8	4.332248E-02	4.741983E-02	0.05	-26.4	20	*
1,2-Dibromoethane	A	50.0	45.7	0.1393584	0.1469196	0.1	-8.5	20	
1,2-Dichlorobenzene	A	50.0	47.5	1.033858	0.9918355	0.4	-4.1	20	
1,2-Dichloroethane	A	50.0	55.4	0.8056448	0.8643578	0.1	7.3	20	
1,2-Dichloropropane	A	50.0	43.6	0.217939	0.2052811	0.1	-5.8	20	
1,3,5-Trimethylbenzene	A	50.0	43.1	2.128144	1.944092		-8.6	20	
1,3-Dichlorobenzene	A	50.0	48.6	1.163597	1.116648	0.6	-4.0	20	
1,4-Dichlorobenzene	A	50.0	48.4	1.14677	1.103335	0.5	-3.8	20	
1,4-Dioxane	A	1000	848	1.468386E-03	1.461538E-03		-0.5	20	
2-Butanone	A	50.0	47.6	7.314443E-02	8.297779E-02	0.1	-4.8	20	
2-Hexanone	A	50.0	39.1	8.447907E-02	8.873276E-02	0.1	-21.9	20	*
4-Methyl-2-pentanone	A	50.0	35.3	0.1313826	0.1364109	0.1	-29.5	20	*
Acetone	A	50.0	34.8	0.1274347	0.1232903	0.1	-3.3	20	
Acrolein	A	50.0	43.0	3.586023E-02	4.549206E-02		-14.0	20	
Acrylonitrile	A	50.0	54.8	0.176318	0.1937407		9.9	20	
Benzene	A	50.0	52.0	3.862998	4.089154	0.5	5.9	20	
Bromochloromethane	A	50.0	52.2	0.5758335	0.6071899		5.4	20	
Bromodichloromethane	A	50.0	40.8	0.2082164	0.2208706	0.2	-18.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435351.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1518	Injection Date:	11/14/23
Lab Sample ID:	S3K1518-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	42.6	6.436572E-02	8.085736E-02	0.1	-14.7	20	
Bromomethane	A	50.0	39.6	6.051231E-02	0.4897024	0.1	709	20	*
Carbon disulfide	A	50.0	43.8	2.170559	2.641265	0.1	-12.4	20	
Carbon tetrachloride	A	50.0	49.2	1.018982	1.194443	0.1	-1.7	20	
Chlorobenzene	A	50.0	49.7	0.6685799	0.6549824	0.5	-2.0	20	
Chloroethane	A	50.0	38.7	0.2967056	0.4081951	0.1	37.6	20	*
Chloroform	A	50.0	54.2	1.447335	1.553099	0.2	7.3	20	
Chloromethane	A	50.0	34.6	0.849522	0.5711834	0.1	-32.8	20	*
cis-1,2-Dichloroethylene	A	50.0	50.9	1.30469	1.384659	0.1	6.1	20	
cis-1,3-Dichloropropylene	A	50.0	39.8	0.2752789	0.2941446	0.2	-20.4	20	*
Cyclohexane	A	50.0	50.4	1.662531	1.728711	0.1	4.0	20	
Dibromochloromethane	A	50.0	42.8	0.1290931	0.1502125	0.1	-14.5	20	
Dibromomethane	A	50.0	47.8	9.980825E-02	0.1005484		0.7	20	
Dichlorodifluoromethane	A	50.0	39.0	0.8407871	0.7840971	0.1	-6.7	20	
Ethyl Benzene	A	50.0	45.4	1.168762	1.144632	0.1	-2.1	20	
Hexachlorobutadiene	A	50.0	50.7	0.4881431	0.4776501		1.4	20	
Isopropylbenzene	A	50.0	46.1	2.662203	2.466181	0.1	-7.4	20	
Methyl acetate	A	50.0	53.7	0.4089222	0.3899263	0.1	-4.6	20	
Methyl tert-butyl ether (MTBE)	A	50.0	43.3	1.475749	1.582363	0.1	-13.3	20	
Methylcyclohexane	A	50.0	41.6	0.5238347	0.4979329	0.1	-4.9	20	
Methylene chloride	A	50.0	50.0	1.034505	1.015016	0.1	-1.9	20	
n-Butylbenzene	A	50.0	42.8	2.694491	2.48784		-7.7	20	
n-Propylbenzene	A	50.0	45.1	3.202307	2.939465		-8.2	20	
o-Xylene	A	50.0	42.1	0.8612993	0.8475003	0.3	-1.6	20	
p- & m- Xylenes	A	100	92.2	0.883358	0.8687194	0.1	-1.7	20	
p-Isopropyltoluene	A	50.0	45.0	2.449024	2.296905		-6.2	20	
sec-Butylbenzene	A	50.0	45.7	2.968845	2.754335		-7.2	20	
Styrene	A	50.0	41.6	0.6725389	0.6902915	0.3	2.6	20	
tert-Butyl alcohol (TBA)	A	250	197	3.264256E-02	3.647441E-02		-21.3	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435351.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1518	Injection Date:	11/14/23
Lab Sample ID:	S3K1518-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	47.8	2.054007	2.016827		-1.8	20	
Tetrachloroethylene	A	50.0	41.8	0.4288938	0.3340137	0.2	-16.5	20	
Toluene	A	50.0	44.8	1.076867	1.032739	0.4	-4.1	20	
trans-1,2-Dichloroethylene	A	50.0	49.8	1.265385	1.323997	0.1	-0.3	20	
trans-1,3-Dichloropropylene	A	50.0	37.4	0.1953299	0.2187897	0.1	-25.2	20	*
trans-1,4-dichloro-2-butene	A	50.0	43.8	0.3639574	0.3603779		-12.4	20	
Trichloroethylene	A	50.0	44.0	0.2598047	0.2460426	0.2	-5.3	20	
Trichlorofluoromethane	A	50.0	44.0	1.097241	1.18447	0.1	7.9	20	
Vinyl Chloride	A	50.0	36.6	0.7000698	0.6647441	0.1	-5.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1544
Instrument: MSBNA9
Calibration: SK30009

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1544-CCV1)			Lab File ID: E90029170.D		Analyzed: 11/15/23 08:14			
SURR: 2-Fluorophenol	30.0	94.0	0 - 200	4.069	4.06375	0.0053	+/-1.00	
SURR: Phenol-d6	30.0	101	0 - 200	4.854	4.838	0.0160	+/-1.00	
SURR: Nitrobenzene-d5	30.0	100	0 - 200	5.621	5.62325	-0.0022	+/-1.00	
SURR: 2-Fluorobiphenyl	30.0	97.1	0 - 200	7.208	7.211875	-0.0039	+/-1.00	
SURR: 2,4,6-Tribromophenol	30.0	97.0	0 - 200	9.114	9.10275	0.0113	+/-1.00	
SURR: Terphenyl-d14	30.0	101	0 - 200	12.63	12.618	0.0120	+/-1.00	
23SP8 (14-16ft) (23K0580-07)			Lab File ID: E90029171.D		Analyzed: 11/15/23 09:30			
SURR: 2-Fluorophenol	2.18	52.1	20 - 108	4.069	4.06375	0.0053	+/-1.00	
SURR: Phenol-d6	2.18	56.9	23 - 114	4.854	4.838	0.0160	+/-1.00	
SURR: Nitrobenzene-d5	1.09	72.9	22 - 108	5.621	5.62325	-0.0022	+/-1.00	
SURR: 2-Fluorobiphenyl	1.09	58.0	21 - 113	7.202	7.211875	-0.0099	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.18	65.3	19 - 110	9.108	9.10275	0.0053	+/-1.00	
SURR: Terphenyl-d14	1.09	65.6	24 - 116	12.63	12.618	0.0120	+/-1.00	
23SP8 (25-27.5ft) (23K0580-08)			Lab File ID: E90029172.D		Analyzed: 11/15/23 10:00			
SURR: 2-Fluorophenol	2.06	56.4	20 - 108	4.069	4.06375	0.0053	+/-1.00	
SURR: Phenol-d6	2.06	52.7	23 - 114	4.848	4.838	0.0100	+/-1.00	
SURR: Nitrobenzene-d5	1.03	55.2	22 - 108	5.621	5.62325	-0.0022	+/-1.00	
SURR: 2-Fluorobiphenyl	1.03	53.2	21 - 113	7.202	7.211875	-0.0099	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.06	54.0	19 - 110	9.108	9.10275	0.0053	+/-1.00	
SURR: Terphenyl-d14	1.03	64.7	24 - 116	12.624	12.618	0.0060	+/-1.00	
23SP10 (0-2.5ft) (23K0580-11)			Lab File ID: E90029173.D		Analyzed: 11/15/23 10:29			
SURR: 2-Fluorophenol	1.82	2.64	20 - 108	4.075	4.06375	0.0113	+/-1.00	*
SURR: Phenol-d6	1.82	17.0	23 - 114	4.854	4.838	0.0160	+/-1.00	*
SURR: Nitrobenzene-d5	0.910	36.6	22 - 108	5.621	5.62325	-0.0022	+/-1.00	
SURR: 2-Fluorobiphenyl	0.910	32.4	21 - 113	7.208	7.211875	-0.0039	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.82	0.800	19 - 110	9.12	9.10275	0.0172	+/-1.00	*
SURR: Terphenyl-d14	0.910	38.1	24 - 116	12.624	12.618	0.0060	+/-1.00	
23SP10 (12.5-15ft) (23K0580-12)			Lab File ID: E90029174.D		Analyzed: 11/15/23 10:58			
SURR: 2-Fluorophenol	2.05	47.4	20 - 108	4.069	4.06375	0.0053	+/-1.00	
SURR: Phenol-d6	2.05	48.6	23 - 114	4.854	4.838	0.0160	+/-1.00	
SURR: Nitrobenzene-d5	1.03	55.4	22 - 108	5.627	5.62325	0.0038	+/-1.00	
SURR: 2-Fluorobiphenyl	1.03	49.2	21 - 113	7.208	7.211875	-0.0039	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.05	54.6	19 - 110	9.114	9.10275	0.0113	+/-1.00	
SURR: Terphenyl-d14	1.03	59.8	24 - 116	12.63	12.618	0.0120	+/-1.00	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30881	Laboratory ID:	BK30881-MS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

Source Sample Name: 23SP1 (22.5-25ft)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
1,1-Biphenyl	1.06	ND	0.580	54.9	10 - 130
1,2,4,5-Tetrachlorobenzene	1.06	ND	0.569	53.8	10 - 133
1,2,4-Trichlorobenzene	1.06	ND	0.586	55.4	10 - 127
1,2-Dichlorobenzene	1.06	ND	0.514	48.6	14 - 111
1,2-Diphenylhydrazine (as Azobenzene)	1.06	ND	0.457	43.2	10 - 144
1,3-Dichlorobenzene	1.06	ND	0.507	47.9	11 - 111
1,4-Dichlorobenzene	1.06	ND	0.500	47.3	10 - 106
2,3,4,6-Tetrachlorophenol	1.06	ND	0.782	73.9	30 - 130
2,4,5-Trichlorophenol	1.06	ND	0.686	64.9	10 - 127
2,4,6-Trichlorophenol	1.06	ND	0.686	64.9	10 - 132
2,4-Dichlorophenol	1.06	ND	0.633	59.8	10 - 128
2,4-Dimethylphenol	1.06	ND	0.523	49.4	10 - 137
2,4-Dinitrophenol	1.06	ND	ND	*	10 - 171
2,4-Dinitrotoluene	1.06	ND	0.400	37.8	16 - 135
2,6-Dinitrotoluene	1.06	ND	0.466	44.1	18 - 131
2-Chloronaphthalene	1.06	ND	0.573	54.2	10 - 129
2-Chlorophenol	1.06	ND	0.542	51.3	15 - 116
2-Methylnaphthalene	1.06	ND	0.580	54.9	10 - 147
2-Methylphenol	1.06	ND	0.528	49.9	10 - 136
2-Nitroaniline	1.06	ND	0.688	65.1	10 - 137
2-Nitrophenol	1.06	ND	0.366	34.6	10 - 129
3- & 4-Methylphenols	1.06	ND	0.480	45.4	10 - 123
3,3-Dichlorobenzidine	1.06	ND	0.657	62.2	10 - 155
3-Nitroaniline	1.06	ND	0.725	68.6	12 - 133
4,6-Dinitro-2-methylphenol	1.06	ND	ND	*	10 - 155
4-Bromophenyl phenyl ether	1.06	ND	0.592	56.0	14 - 128
4-Chloro-3-methylphenol	1.06	ND	0.673	63.7	10 - 134
4-Chloroaniline	1.06	ND	0.453	42.9	10 - 145
4-Chlorophenyl phenyl ether	1.06	ND	0.610	57.7	14 - 130
4-Nitroaniline	1.06	ND	0.732	69.2	10 - 147
4-Nitrophenol	1.06	ND	0.464	43.8	10 - 137

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30881	Laboratory ID:	BK30881-MS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

Source Sample Name: 23SP1 (22.5-25ft)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Acenaphthene	1.06	ND	0.577	54.6	10 - 146
Acenaphthylene	1.06	ND	0.562	53.2	10 - 134
Acetophenone	1.06	ND	0.524	49.5	10 - 116
Aniline	1.06	ND	0.360	34.1	10 - 123
Anthracene	1.06	ND	0.628	59.4	10 - 142
Atrazine	1.06	ND	0.590	55.8	19 - 115
Benzaldehyde	1.06	ND	0.435	41.1	10 - 125
Benzo(a)anthracene	1.06	ND	0.683	64.6	10 - 158
Benzo(a)pyrene	1.06	ND	0.629	59.5	10 - 180
Benzo(b)fluoranthene	1.06	ND	0.644	60.9	10 - 200
Benzo(g,h,i)perylene	1.06	ND	0.544	51.4	10 - 138
Benzo(k)fluoranthene	1.06	ND	0.627	59.3	10 - 197
Benzoic acid	1.06	ND	ND	*	10 - 166
Benzyl alcohol	1.06	ND	0.474	44.9	12 - 124
Benzyl butyl phthalate	1.06	ND	0.761	72.0	10 - 154
Bis(2-chloroethoxy)methane	1.06	ND	0.532	50.3	10 - 132
Bis(2-chloroethyl)ether	1.06	ND	0.491	46.5	10 - 119
Bis(2-chloroisopropyl)ether	1.06	ND	0.388	36.7	10 - 139
Bis(2-ethylhexyl)phthalate	1.06	ND	0.787	74.5	10 - 167
Caprolactam	1.06	ND	0.787	74.4	10 - 132
Carbazole	1.06	ND	0.653	61.8	10 - 167
Chrysene	1.06	ND	0.624	59.0	10 - 156
Dibenzo(a,h)anthracene	1.06	ND	0.623	58.9	10 - 137
Dibenzofuran	1.06	ND	0.593	56.1	10 - 147
Diethyl phthalate	1.06	ND	0.627	59.3	20 - 120
Dimethyl phthalate	1.06	ND	0.593	56.1	18 - 131
Di-n-butyl phthalate	1.06	ND	0.677	64.1	10 - 137
Di-n-octyl phthalate	1.06	ND	0.895	84.6	10 - 180
Diphenylamine	1.06	ND	0.716	67.7	40 - 140
Fluoranthene	1.06	ND	0.647	61.2	10 - 160
Fluorene	1.06	ND	0.608	57.5	10 - 157
Hexachlorobutadiene	1.06	ND	0.593	56.1	10 - 132

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

23SP1 (22.5-25ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30881	Laboratory ID:	BK30881-MS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

Source Sample Name: 23SP1 (22.5-25ft)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #	QC LIMITS REC.
Hexachlorocyclopentadiene	1.06	ND	ND	*	10 - 106
Hexachloroethane	1.06	ND	0.287	27.1	10 - 110
Indeno(1,2,3-cd)pyrene	1.06	ND	0.650	61.5	10 - 144
Isophorone	1.06	ND	0.544	51.4	10 - 132
Naphthalene	1.06	ND	0.572	54.1	10 - 141
Nitrobenzene	1.06	ND	0.498	47.1	10 - 131
N-Nitrosodimethylamine	1.06	ND	0.373	35.3	10 - 126
N-nitroso-di-n-propylamine	1.06	ND	0.483	45.7	10 - 125
N-Nitrosodiphenylamine	1.06	ND	0.673	63.7	10 - 177
Pentachlorophenol	1.06	ND	0.638	60.3	10 - 153
Phenanthrene	1.06	ND	0.621	58.7	10 - 148
Phenol	1.06	ND	0.491	46.4	10 - 126
Pyrene	1.06	ND	0.693	65.5	10 - 165

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Matrix: Soil
Batch: BK30881
Laboratory ID: BK30881-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 1 mL
Source Sample Name: 23SP1 (22.5-25ft)

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Biphenyl	1.06	0.537	50.8	7.72	30	10 - 130
1,2,4,5-Tetrachlorobenzene	1.06	0.505	47.8	12.0	30	10 - 133
1,2,4-Trichlorobenzene	1.06	0.522	49.4	11.6	30	10 - 127
1,2-Dichlorobenzene	1.06	0.474	44.9	8.04	30	14 - 111
1,2-Diphenylhydrazine (as Azobenzene)	1.06	0.436	41.3	4.55	30	10 - 144
1,3-Dichlorobenzene	1.06	0.460	43.5	9.62	30	11 - 111
1,4-Dichlorobenzene	1.06	0.471	44.6	5.92	30	10 - 106
2,3,4,6-Tetrachlorophenol	1.06	0.694	65.7	11.8	30	30 - 130
2,4,5-Trichlorophenol	1.06	0.593	56.1	14.6	30	10 - 127
2,4,6-Trichlorophenol	1.06	0.621	58.7	9.97	30	10 - 132
2,4-Dichlorophenol	1.06	0.573	54.2	9.96	30	10 - 128
2,4-Dimethylphenol	1.06	0.481	45.5	8.26	30	10 - 137
2,4-Dinitrophenol	1.06	ND	*		30	10 - 171
2,4-Dinitrotoluene	1.06	0.408	38.6	1.88	30	16 - 135
2,6-Dinitrotoluene	1.06	0.469	44.4	0.723	30	18 - 131
2-Chloronaphthalene	1.06	0.518	49.0	10.2	30	10 - 129
2-Chlorophenol	1.06	0.510	48.2	6.11	30	15 - 116
2-Methylnaphthalene	1.06	0.523	49.4	10.4	30	10 - 147
2-Methylphenol	1.06	0.507	47.9	4.09	30	10 - 136
2-Nitroaniline	1.06	0.608	57.5	12.4	30	10 - 137
2-Nitrophenol	1.06	0.388	36.7	5.83	30	10 - 129
3- & 4-Methylphenols	1.06	0.446	42.2	7.31	30	10 - 123
3,3-Dichlorobenzidine	1.06	0.591	55.9	10.6	30	10 - 155
3-Nitroaniline	1.06	0.618	58.5	15.9	30	12 - 133
4,6-Dinitro-2-methylphenol	1.06	0.118	11.1		30	10 - 155
4-Bromophenyl phenyl ether	1.06	0.526	49.8	11.8	30	14 - 128
4-Chloro-3-methylphenol	1.06	0.597	56.5	12.0	30	10 - 134
4-Chloroaniline	1.06	0.390	36.9	15.0	30	10 - 145
4-Chlorophenyl phenyl ether	1.06	0.562	53.1	8.23	30	14 - 130
4-Nitroaniline	1.06	0.631	59.7	14.8	30	10 - 147
4-Nitrophenol	1.06	0.437	41.4	5.82	30	10 - 137
Acenaphthene	1.06	0.524	49.5	9.68	30	10 - 146

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 8270D

23SP1 (22.5-25ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Matrix: Soil
Batch: BK30881
Laboratory ID: BK30881-MSD1
Preparation: EPA 3550C
Initial/Final: 30.1 g / 1 mL
Source Sample Name: 23SP1 (22.5-25ft)

COMPOUND	SPIKE ADDED (mg/kg dry)	MSD CONCENTRATION (mg/kg dry)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthylene	1.06	0.513	48.6	9.12	30	10 - 134
Acetophenone	1.06	0.480	45.4	8.59	30	10 - 116
Aniline	1.06	0.341	32.2	5.55	30	10 - 123
Anthracene	1.06	0.559	52.9	11.7	30	10 - 142
Atrazine	1.06	0.548	51.8	7.43	30	19 - 115
Benzaldehyde	1.06	0.404	38.2	7.26	30	10 - 125
Benzo(a)anthracene	1.06	0.606	57.4	11.8	30	10 - 158
Benzo(a)pyrene	1.06	0.563	53.3	11.1	30	10 - 180
Benzo(b)fluoranthene	1.06	0.573	54.2	11.7	30	10 - 200
Benzo(g,h,i)perylene	1.06	0.503	47.6	7.75	30	10 - 138
Benzo(k)fluoranthene	1.06	0.541	51.2	14.6	30	10 - 197
Benzoic acid	1.06	ND	*		30	10 - 166
Benzyl alcohol	1.06	0.446	42.2	6.25	30	12 - 124
Benzyl butyl phthalate	1.06	0.691	65.4	9.67	30	10 - 154
Bis(2-chloroethoxy)methane	1.06	0.484	45.8	9.49	30	10 - 132
Bis(2-chloroethyl)ether	1.06	0.453	42.8	8.24	30	10 - 119
Bis(2-chloroisopropyl)ether	1.06	0.369	34.9	5.14	30	10 - 139
Bis(2-ethylhexyl)phthalate	1.06	0.720	68.1	8.98	30	10 - 167
Caprolactam	1.06	0.704	66.6	11.1	30	10 - 132
Carbazole	1.06	0.579	54.8	11.9	30	10 - 167
Chrysene	1.06	0.546	51.6	13.4	30	10 - 156
Dibenzo(a,h)anthracene	1.06	0.557	52.6	11.2	30	10 - 137
Dibenzofuran	1.06	0.541	51.2	9.10	30	10 - 147
Diethyl phthalate	1.06	0.570	53.9	9.47	30	20 - 120
Dimethyl phthalate	1.06	0.551	52.2	7.24	30	18 - 131
Di-n-butyl phthalate	1.06	0.615	58.2	9.69	30	10 - 137
Di-n-octyl phthalate	1.06	0.815	77.1	9.30	30	10 - 180
Diphenylamine	1.06	0.647	61.2	10.1	30	40 - 140
Fluoranthene	1.06	0.561	53.0	14.3	30	10 - 160
Fluorene	1.06	0.544	51.4	11.2	30	10 - 157
Hexachlorobenzene	1.06	0.510	48.2	10.4	30	10 - 137
Hexachlorobutadiene	1.06	0.521	49.3	12.9	30	10 - 132
Hexachlorocyclopentadiene	1.06	ND	*		30	10 - 106

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1544
Instrument: MSBNA9
Calibration: SK30009

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23SP10 (18-22ft) (23K0580-13)			Lab File ID: E90029175.D			Analyzed: 11/15/23 11:28			
ISTD: 1,4-Dichlorobenzene-d4	585721	5.162	511147	5.162	115	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	2673740	6.22	2536485	6.22	105	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	1634713	7.998	1414292	7.998	116	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	2105222	10.003	1880304	9.997	112	50 - 200	0.0060	+/-0.50	
ISTD: Chrysene-d12	1677237	14.838	1555291	14.803	108	50 - 200	0.0350	+/-0.50	
ISTD: Perylene-d12	2064223	17.866	1940994	17.825	106	50 - 200	0.0410	+/-0.50	
23SP10 (25-27.5ft) (23K0580-14)			Lab File ID: E90029176.D			Analyzed: 11/15/23 11:57			
ISTD: 1,4-Dichlorobenzene-d4	542282	5.162	511147	5.162	106	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	2405027	6.22	2536485	6.22	95	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	1465132	7.998	1414292	7.998	104	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	1967822	9.997	1880304	9.997	105	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	1579673	14.803	1555291	14.803	102	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	1978408	17.831	1940994	17.825	102	50 - 200	0.0060	+/-0.50	
23SP1 (0-2.5ft) (23K0580-15)			Lab File ID: E90029178.D			Analyzed: 11/15/23 13:44			
ISTD: 1,4-Dichlorobenzene-d4	1050794	5.162	511147	5.162	206	50 - 200	0.0000	+/-0.50	*
ISTD: Naphthalene-d8	4708316	6.22	2536485	6.22	186	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	3140424	7.998	1414292	7.998	222	50 - 200	0.0000	+/-0.50	*
ISTD: Phenanthrene-d10	3761626	9.997	1880304	9.997	200	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	3140163	14.815	1555291	14.803	202	50 - 200	0.0120	+/-0.50	*
ISTD: Perylene-d12	3966110	17.843	1940994	17.825	204	50 - 200	0.0180	+/-0.50	*
23SP1 (10-12.5ft) (23K0580-16)			Lab File ID: E90029180.D			Analyzed: 11/15/23 14:42			
ISTD: 1,4-Dichlorobenzene-d4	818370	5.162	511147	5.162	160	50 - 200	0.0000	+/-0.50	
ISTD: Naphthalene-d8	3717852	6.22	2536485	6.22	147	50 - 200	0.0000	+/-0.50	
ISTD: Acenaphthene-d10	2370595	7.998	1414292	7.998	168	50 - 200	0.0000	+/-0.50	
ISTD: Phenanthrene-d10	2873427	9.997	1880304	9.997	153	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	2173217	14.803	1555291	14.803	140	50 - 200	0.0000	+/-0.50	
ISTD: Perylene-d12	2652653	17.837	1940994	17.825	137	50 - 200	0.0120	+/-0.50	
23SP1 (12.5-15ft) (23K0580-17)			Lab File ID: E90029181.D			Analyzed: 11/15/23 15:11			
ISTD: 1,4-Dichlorobenzene-d4	704866	5.168	511147	5.162	138	50 - 200	0.0060	+/-0.50	
ISTD: Naphthalene-d8	2926199	6.231	2536485	6.22	115	50 - 200	0.0110	+/-0.50	
ISTD: Acenaphthene-d10	2142555	8.004	1414292	7.998	151	50 - 200	0.0060	+/-0.50	
ISTD: Phenanthrene-d10	2686608	9.997	1880304	9.997	143	50 - 200	0.0000	+/-0.50	
ISTD: Chrysene-d12	2079154	14.815	1555291	14.803	134	50 - 200	0.0120	+/-0.50	
ISTD: Perylene-d12	2526160	17.843	1940994	17.825	130	50 - 200	0.0180	+/-0.50	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30009
Instrument: MSBNA9
Calibration Date: 11/06/23 11:11

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	6.318702E-02	4.923044	7.324	1.941151E-02			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	4.265777E-02	4.048306	7.015	3.860308E-02			SPCC (0.01)	
1,2,4-Trichlorobenzene	2.657509E-02	8.080025	6.16175	2.008235E-03			20	
1,2-Dichlorobenzene	0.1571184	3.849227	5.301125	0.0181582			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.129867	5.578863	8.967125	2.666933E-02			20	
1,3-Dichlorobenzene	0.1605483	3.61571	5.115375	1.783825E-02			20	
1,4-Dichlorobenzene	0.1650743	4.411968	5.179	1.579059E-02			20	
2,3,4,6-Tetrachlorophenol	1.532206E-02	6.291701	8.408625	3.652759E-02			SPCC (0.01)	
2,4,5-Trichlorophenol	3.350263E-02	5.861677	7.16625	3.101703E-02			SPCC (0.2)	
2,4,6-Trichlorophenol	3.089985E-02	7.603875	7.126	1.980018E-02			SPCC (0.2)	
2,4-Dichlorophenol	2.611313E-02	6.842777	6.08675	3.034987E-02			SPCC (0.2)	
2,4-Dimethylphenol	2.902906E-02	7.388881	5.907375	4.097535E-02			SPCC (0.2)	
2,4-Dinitrophenol	1.165291E-02	34.75201	8.077	5.162237E-02			SPCC (0.01)	*
2,4-Dinitrotoluene	0.0426688	2.251846	8.237	5.399692E-02			SPCC (0.2)	
2,6-Dinitrotoluene	3.068235E-02	3.943703	7.732833	3.580297E-02			SPCC (0.2)	
2-Chloronaphthalene	0.1164826	4.487567	7.359625	2.466079E-02			SPCC (0.8)	
2-Chlorophenol	0.144077	4.75767	4.98775	1.626206E-02			SPCC (0.8)	
2-Methylnaphthalene	7.178325E-02	6.522423	6.85975	2.942888E-02			SPCC (0.4)	
2-Methylphenol	0.115505	2.857873	5.34875	4.089784E-02			SPCC (0.7)	
2-Nitroaniline	4.299595E-02	3.237497	7.47	2.688135E-02			SPCC (0.01)	
2-Nitrophenol	1.729599E-02	8.131868	5.89475	2.853956E-02			SPCC (0.1)	
3- & 4-Methylphenols	0.1752956	5.665929	5.4715	5.279898E-02			SPCC (0.6)	
3,3-Dichlorobenzidine	5.952303E-02	7.217678	14.782	2.517162E-02			SPCC (0.01)	
3-Nitroaniline	3.761835E-02	3.149061	7.947833	3.239642E-02			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	1.464352E-02	24.1191	8.802875	4.769376E-02			SPCC (0.01)	*
4-Bromophenyl phenyl ether	2.244545E-02	6.87139	9.457	4.457264E-03			SPCC (0.1)	
4-Chloro-3-methylphenol	3.060028E-02	8.026199	6.68675	0.0398409			SPCC (0.2)	
4-Chloroaniline	4.173156E-02	7.035868	6.28375	1.080923E-02			SPCC (0.01)	
4-Chlorophenyl phenyl ether	5.739937E-02	4.590366	8.723625	2.610691E-02			SPCC (0.4)	
4-Nitroaniline	4.112261E-02	3.114791	8.781667	6.059766E-02			SPCC (0.01)	
4-Nitrophenol	2.428888E-02	14.77626	8.1215	4.915899E-02			SPCC (0.01)	
Acenaphthene	0.1238468	6.696403	8.040375	2.499081E-02			SPCC (0.9)	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30009
Laboratory ID: S3K0612-SCV1
Sequence: S3K0612
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	26.7	-10.9	30.00
Hexachlorobutadiene	30.0	26.5	-11.7	30.00
Hexachlorocyclopentadiene	30.0	17.5	-41.6 *	30.00
Hexachloroethane	30.0	27.6	-8.1	30.00
Indeno(1,2,3-cd)pyrene	30.0	29.1	-3.0	30.00
Isophorone	30.0	29.7	-0.9	30.00
Naphthalene	30.0	28.2	-5.9	30.00
Nitrobenzene	30.0	28.2	-6.1	30.00
N-Nitrosodimethylamine	30.0	27.7	-7.7	30.00
N-nitroso-di-n-propylamine	30.0	27.6	-8.1	30.00
N-Nitrosodiphenylamine	30.0	30.4	1.5	30.00
Pentachlorophenol	30.0	30.4	1.5	30.00
Phenanthrene	30.0	26.8	-10.6	30.00
Phenol	30.0	28.5	-5.0	30.00
Pyrene	30.0	28.3	-5.8	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30019
Laboratory ID: S3K1018-SCV1
Sequence: S3K1018
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	26.8	-10.8	30.00
1,2-Dichlorobenzene	30.0	26.5	-11.6	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.2	-9.3	30.00
1,3-Dichlorobenzene	30.0	26.6	-11.3	30.00
1,4-Dichlorobenzene	30.0	26.3	-12.5	30.00
2,3,4,6-Tetrachlorophenol	30.0	31.6	5.2	30.00
2,4,5-Trichlorophenol	30.0	25.9	-13.7	30.00
2,4,6-Trichlorophenol	30.0	26.9	-10.3	30.00
2,4-Dichlorophenol	30.0	28.2	-6.1	30.00
2,4-Dimethylphenol	30.0	22.2	-26.0	30.00
2,4-Dinitrophenol	30.0	32.2	7.2	30.00
2,4-Dinitrotoluene	30.0	28.8	-4.1	30.00
2,6-Dinitrotoluene	30.0	30.1	0.3	30.00
2-Chloronaphthalene	30.0	26.7	-11.1	30.00
2-Chlorophenol	30.0	27.6	-7.9	30.00
2-Methylnaphthalene	30.0	27.5	-8.3	30.00
2-Methylphenol	30.0	18.1	-39.6 *	30.00
2-Nitroaniline	30.0	28.5	-5.0	30.00
2-Nitrophenol	30.0	29.2	-2.8	30.00
3- & 4-Methylphenols	30.0	23.9	-20.2	30.00
3-Nitroaniline	30.0	28.8	-4.2	30.00
4,6-Dinitro-2-methylphenol	30.0	29.4	-1.9	30.00
4-Bromophenyl phenyl ether	30.0	25.2	-16.1	30.00
4-Chloro-3-methylphenol	30.0	29.1	-3.0	30.00
4-Chloroaniline	30.0	26.5	-11.6	30.00
4-Chlorophenyl phenyl ether	30.0	25.3	-15.5	30.00
4-Nitroaniline	30.0	28.1	-6.3	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SK30019
Laboratory ID: S3K1018-SCV1
Sequence: S3K1018
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	27.1	-9.6	30.00
Hexachlorobutadiene	30.0	26.3	-12.4	30.00
Hexachlorocyclopentadiene	30.0	16.1	-46.4 *	30.00
Hexachloroethane	30.0	26.7	-10.9	30.00
Indeno(1,2,3-cd)pyrene	30.0	28.7	-4.3	30.00
Isophorone	30.0	29.7	-1.1	30.00
Naphthalene	30.0	28.0	-6.6	30.00
Nitrobenzene	30.0	28.4	-5.3	30.00
N-Nitrosodimethylamine	30.0	27.6	-8.0	30.00
N-nitroso-di-n-propylamine	30.0	26.7	-10.9	30.00
N-Nitrosodiphenylamine	30.0	30.7	2.5	30.00
Pentachlorophenol	30.0	26.4	-12.0	30.00
Phenanthrene	30.0	26.3	-12.4	30.00
Phenol	30.0	27.8	-7.3	30.00
Pyrene	30.0	26.9	-10.4	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	MSBNA9	Calibration:	SK30009
Lab File ID:	E90029170.D	Calibration Date:	11/06/23 11:11
Sequence:	S3K1544	Injection Date:	11/15/23
Lab Sample ID:	S3K1544-CCV1	Injection Time:	08:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	28.2	0.3885702	0.3871327	0.01	-0.4	20	
4-Nitrophenol	A	30.0	25.7	0.2428888	0.2079844	0.01	-14.4	20	
Acenaphthene	A	30.0	28.2	1.238468	1.165311	0.9	-5.9	20	
Acenaphthylene	A	30.0	29.4	2.033598	1.99324	0.9	-2.0	20	
Acetophenone	A	30.0	29.3	2.104517	2.094273	0.01	-0.5	20	
Aniline	A	30.0	29.0	1.900019	1.834045		-3.5	20	
Anthracene	A	30.0	29.0	1.175526	1.137823	0.7	-3.2	20	
Atrazine	A	30.0	28.0	0.2303565	0.2153382	0.01	-6.5	20	
Benzaldehyde	A	30.0	27.4	1.136413	1.041175	0.01	-8.4	20	
Benzidine	A	30.0	20.9	0.7725249	0.5435951		-29.6	20	*
Benzo(a)anthracene	A	30.0	29.7	1.422013	1.408414	0.8	-1.0	20	
Benzo(a)pyrene	A	30.0	30.6	1.464547	1.491667	0.7	1.9	20	
Benzo(b)fluoranthene	A	30.0	29.4	1.508925	1.479123	0.7	-2.0	20	
Benzo(g,h,i)perylene	A	30.0	31.5	1.12031	1.175811	0.5	5.0	20	
Benzo(k)fluoranthene	A	30.0	29.4	1.510249	1.479123	0.7	-2.1	20	
Benzoic acid	A	30.0	21.9	0.2005721	0.1713952		-14.5	20	
Benzyl alcohol	A	30.0	29.8	0.9991398	0.9935068		-0.6	20	
Benzyl butyl phthalate	A	30.0	31.3	0.8894276	0.9284608		4.4	20	
Bis(2-chloroethoxy)methane	A	30.0	27.4	0.3914047	0.3571488	0.3	-8.8	20	
Bis(2-chloroethyl)ether	A	30.0	28.6	1.380972	1.317333	0.7	-4.6	20	
Bis(2-chloroisopropyl)ether	A	30.0	30.1	1.907769	1.914377	0.01	0.3	20	
Bis(2-ethylhexyl)phthalate	A	30.0	30.5	1.26977	1.292265		1.8	20	
Caprolactam	A	30.0	25.0	0.1213139	0.1022339	0.01	-15.7	20	
Carbazole	A	30.0	28.6	1.214599	1.157337	0.01	-4.7	20	
Chrysene	A	30.0	29.1	1.406277	1.365103	0.7	-2.9	20	
Dibenzo(a,h)anthracene	A	30.0	33.0	1.07485	1.182567	0.4	10.0	20	
Dibenzofuran	A	30.0	29.4	1.736048	1.700218	0.8	-2.1	20	
Diethyl phthalate	A	30.0	30.8	1.48147	1.5199	0.01	2.6	20	
Dimethyl phthalate	A	30.0	30.6	1.390785	1.419543	0.01	2.1	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	MSBNA9	Calibration:	SK30009
Lab File ID:	E90029170.D	Calibration Date:	11/06/23 11:11
Sequence:	S3K1544	Injection Date:	11/15/23
Lab Sample ID:	S3K1544-CCV1	Injection Time:	08:14

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	30.2	1.587607	1.595287	0.01	0.5	20	
Di-n-octyl phthalate	A	30.0	30.1	2.216232	2.325746	0.01	4.9	20	
Diphenylamine	A	30.0	27.4	0.9037004	0.8267075		-8.5		
Fluoranthene	A	30.0	30.0	1.226544	1.227544	0.6	0.08	20	
Fluorene	A	30.0	30.1	1.471019	1.475752	0.9	0.3	20	
Hexachlorobenzene	A	30.0	28.6	0.1278795	0.1219583	0.1	-4.6	20	
Hexachlorobutadiene	A	30.0	29.0	0.135051	0.1304151	0.01	-3.4	20	
Hexachlorocyclopentadiene	A	30.0	17.2	0.2424122	0.1394149	0.05	-42.5	20	*
Hexachloroethane	A	30.0	30.4	0.6480103	0.65632	0.3	1.3	20	
Indeno(1,2,3-cd)pyrene	A	30.0	32.7	1.032517	1.126225	0.5	9.1	20	
Isophorone	A	30.0	28.4	0.6486584	0.6147841	0.4	-5.2	20	
Naphthalene	A	30.0	28.1	1.046667	0.9793364	0.7	-6.4	20	
Nitrobenzene	A	30.0	29.2	0.34254	0.3330041	0.2	-2.8	20	
N-Nitrosodimethylamine	A	30.0	29.6	0.671812	0.6638299		-1.2	20	
N-nitroso-di-n-propylamine	A	30.0	30.2	1.100658	1.109356	0.5	0.8	20	
N-Nitrosodiphenylamine	A	30.0	27.1	0.321989	0.2905459	0.01	-9.8	20	
Pentachlorophenol	A	30.0	17.4	0.1246333	7.230391E-02	0.05	-42.0	20	*
Phenanthrene	A	30.0	28.6	1.162432	1.107574	0.7	-4.7	20	
Phenol	A	30.0	32.1	1.667502	1.785005	0.8	7.0	20	
Pyrene	A	30.0	29.3	1.540923	1.505965	0.6	-2.3	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	BNA#2	Calibration:	SK30019
Lab File ID:	E20017399.D	Calibration Date:	11/09/23 00:49
Sequence:	S3K1618	Injection Date:	11/15/23
Lab Sample ID:	S3K1618-CCV1	Injection Time:	20:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	26.4	0.7664482	0.6750345	0.01	-11.9	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	29.0	0.3688598	0.3562168	0.01	-3.4	20	
1,2,4-Trichlorobenzene	A	30.0	26.7	0.2531788	0.2254074		-11.0	20	
1,2-Dichlorobenzene	A	30.0	27.5	1.630342	1.49499		-8.3	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	33.0	1.028584	1.131233		10.0	20	
1,3-Dichlorobenzene	A	30.0	27.8	1.696196	1.569516		-7.5	20	
1,4-Dichlorobenzene	A	30.0	27.3	1.732304	1.576077		-9.0	20	
2,3,4,6-Tetrachlorophenol	A	30.0	31.0	0.1664627	0.1718787	0.01	3.3	20	
2,4,5-Trichlorophenol	A	30.0	28.4	0.3360396	0.3184884	0.2	-5.2	20	
2,4,6-Trichlorophenol	A	30.0	29.5	0.3036131	0.2987276	0.2	-1.6	20	
2,4-Dichlorophenol	A	30.0	28.3	0.2548553	0.2400627	0.2	-5.8	20	
2,4-Dimethylphenol	A	30.0	27.8	0.3075434	0.2852318	0.2	-7.3	20	
2,4-Dinitrophenol	A	30.0	43.4	0.1029074	0.1489273	0.01	44.7	20	*
2,4-Dinitrotoluene	A	30.0	32.1	0.3948777	0.4223248	0.2	7.0	20	
2,6-Dinitrotoluene	A	30.0	30.5	0.2942408	0.2989297	0.2	1.6	20	
2-Chloronaphthalene	A	30.0	27.3	1.200568	1.093419	0.8	-8.9	20	
2-Chlorophenol	A	30.0	28.3	1.626037	1.535147	0.8	-5.6	20	
2-Methylnaphthalene	A	30.0	27.0	0.7218267	0.6507049	0.4	-9.9	20	
2-Methylphenol	A	30.0	28.4	1.285189	1.847278	0.7	43.7	20	*
2-Nitroaniline	A	30.0	30.7	0.4448219	0.4552333	0.01	2.3	20	
2-Nitrophenol	A	30.0	30.6	0.1729887	0.1763812	0.1	2.0	20	
3- & 4-Methylphenols	A	30.0	28.4	1.95298	1.847278	0.6	-5.4	20	
3,3-Dichlorobenzidine	A	30.0	30.2	0.502212	0.5051824	0.01	0.6	20	
3-Nitroaniline	A	30.0	30.5	0.391633	0.3985056	0.01	1.8	20	
4,6-Dinitro-2-methylphenol	A	30.0	40.0	9.507267E-02	0.12688	0.01	33.5	20	*
4-Bromophenyl phenyl ether	A	30.0	27.3	0.1593186	0.1449592	0.1	-9.0	20	
4-Chloro-3-methylphenol	A	30.0	29.3	0.2980765	0.2909153	0.2	-2.4	20	
4-Chloroaniline	A	30.0	27.4	0.4446703	0.4064921	0.01	-8.6	20	
4-Chlorophenyl phenyl ether	A	30.0	27.3	0.5586489	0.5080019	0.4	-9.1	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	BNA#2	Calibration:	SK30019
Lab File ID:	E20017399.D	Calibration Date:	11/09/23 00:49
Sequence:	S3K1618	Injection Date:	11/15/23
Lab Sample ID:	S3K1618-CCV1	Injection Time:	20:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	29.7	1.638593	1.620471	0.01	-1.1	20	
Di-n-octyl phthalate	A	30.0	36.2	2.449914	2.953532	0.01	20.6	20	*
Diphenylamine	A	30.0	27.8	0.7090266	0.6579255		-7.2		
Fluoranthene	A	30.0	28.1	1.246268	1.165535	0.6	-6.5	20	
Fluorene	A	30.0	27.4	1.465202	1.340095	0.9	-8.5	20	
Hexachlorobenzene	A	30.0	28.0	0.1268038	0.1183273	0.1	-6.7	20	
Hexachlorobutadiene	A	30.0	26.7	9.774283E-02	8.695759E-02	0.01	-11.0	20	
Hexachlorocyclopentadiene	A	30.0	28.4	0.2039612	0.1933367	0.05	-5.2	20	
Hexachloroethane	A	30.0	27.8	0.6437118	0.5976205	0.3	-7.2	20	
Indeno(1,2,3-cd)pyrene	A	30.0	31.2	1.063642	1.106876	0.5	4.1	20	
Isophorone	A	30.0	28.0	0.6252974	0.5826162	0.4	-6.8	20	
Naphthalene	A	30.0	26.1	1.092406	0.9495843	0.7	-13.1	20	
Nitrobenzene	A	30.0	27.7	0.3499658	0.3232779	0.2	-7.6	20	
N-Nitrosodimethylamine	A	30.0	30.4	0.856902	0.8691301		1.4	20	
N-nitroso-di-n-propylamine	A	30.0	28.9	1.189435	1.144546	0.5	-3.8	20	
N-Nitrosodiphenylamine	A	30.0	26.5	0.2967253	0.2623493	0.01	-11.6	20	
Pentachlorophenol	A	30.0	29.5	9.579505E-02	9.434111E-02	0.05	-1.5	20	
Phenanthrene	A	30.0	27.5	1.259437	1.155503	0.7	-8.3	20	
Phenol	A	30.0	28.8	1.842135	1.765152	0.8	-4.2	20	
Pyrene	A	30.0	28.9	1.657171	1.594925	0.6	-3.8	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1554
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PFAS Field Blank (23K0580-10)			Lab File ID: QQQ32202.d		Analyzed: 11/15/23 20:34			
M3PFBS	23.3	55.4	25 - 150	5.141067	5.154708	-0.0136	+/-1.00	
M5PFHxA	25.0	66.9	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	25.0	115	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	23.7	93.7	25 - 150	6.889783	6.69831	0.1915	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	25.0	90.0	25 - 150	7.473834	7.228673	0.2452	+/-1.00	
M6PFDA	12.5	56.6	25 - 150	8.633533	8.325208	0.3083	+/-1.00	
M7PFUdA	12.5	44.1	25 - 150	9.096867	8.807389	0.2895	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	12.5	40.0	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	12.5	34.0	10 - 150	10.16578	10.01288	0.1529	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	100	0.570	25 - 150	1.177267	1.219727	-0.0425	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	24.0	39.4	25 - 150	8.122566	7.829089	0.2935	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	50.0	11.3	25 - 150	4.35715	4.446487	-0.0893	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	25.0	50.5	10 - 150	9.11055	8.806458	0.3041	+/-1.00	
d3-N-MeFOSAA	50.0	32.1	25 - 150	8.835333	8.533981	0.3014	+/-1.00	
d5-N-EtFOSAA	50.0	30.4	25 - 150	9.077383	8.785462	0.2919	+/-1.00	
M2-6:2 FTS	47.6	44.7	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	48.0	23.6	25 - 200	8.595667	8.28256	0.3131	+/-1.00	*
M9PFNA	12.5	62.2	25 - 150	8.096316	7.796514	0.2998	+/-1.00	
M2-4:2 FTS	46.9	38.5	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	25.0	44.1	25 - 150	9.886717	9.706333	0.1804	+/-1.00	
d-N-EtFOSA	25.0	56.0	25 - 150	10.14422	10.01312	0.1311	+/-1.00	
M3HFPO-DA	100	75.1	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	250	34.5	25 - 150	10.10382	9.96349	0.1403	+/-1.00	
d7-N-MeFOSE	250	44.2	25 - 150	9.846117	9.668704	0.1774	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP9 (10-12.5ft) (23K0580-02)			Lab File ID: QQQ32234.d		Analyzed: 11/16/23 13:09			
M3PFBS	2.48	126	25 - 150	5.122617	5.154708	-0.0321	+/-1.00	
M5PFHxA	2.67	138	25 - 150	5.9453	5.896742	0.0486	+/-1.00	
M4PFHpA	2.67	149	25 - 150	6.760733	6.612394	0.1483	+/-1.00	
M3PFHxS	2.53	152	25 - 150	6.862017	6.69831	0.1637	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.67	117	25 - 150	7.446017	7.228673	0.2173	+/-1.00	
M6PFDA	1.33	145	25 - 150	8.615	8.325208	0.2898	+/-1.00	
M7PFUdA	1.33	125	25 - 150	9.069117	8.807389	0.2617	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.33	117	25 - 150	9.46635	9.254519	0.2118	+/-1.00	
M2PFTeDA	1.33	102	10 - 150	10.1104	10.01288	0.0975	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.7	123	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.55	117	25 - 150	8.094733	7.829089	0.2656	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.33	143	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.67	118	10 - 150	9.082583	8.806458	0.2761	+/-1.00	
d3-N-MeFOSAA	5.33	91.8	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	5.33	121	25 - 150	9.049334	8.785462	0.2639	+/-1.00	
M2-6:2 FTS	5.06	63.1	25 - 200	7.380367	7.170869	0.2095	+/-1.00	
M2-8:2 FTS	5.11	63.2	25 - 200	8.567866	8.28256	0.2853	+/-1.00	
M9PFNA	1.33	136	25 - 150	8.0592	7.796514	0.2627	+/-1.00	
M2-4:2 FTS	5.00	63.9	25 - 150	5.86935	5.828181	0.0412	+/-1.00	
d-N-MeFOSA	2.67	82.0	25 - 150	9.840567	9.706333	0.1342	+/-1.00	
d-N-EtFOSA	2.67	114	25 - 150	10.09812	10.01312	0.0850	+/-1.00	
M3HFPO-DA	10.7	144	25 - 150	6.235083	6.155542	0.0795	+/-1.00	
d9-N-EtFOSE	26.7	158	25 - 150	10.05772	9.96349	0.0942	+/-1.00	*
d7-N-MeFOSE	26.7	188	25 - 150	9.809216	9.668704	0.1405	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP9 (12.5-15ft) (23K0580-03)			Lab File ID: QQQ32235.d		Analyzed: 11/16/23 13:25			
M3PFBS	3.07	124	25 - 150	5.1134	5.154708	-0.0413	+/-1.00	
M5PFHxA	3.30	123	25 - 150	5.93605	5.896742	0.0393	+/-1.00	
M4PFHpA	3.30	131	25 - 150	6.760733	6.612394	0.1483	+/-1.00	
M3PFHxS	3.13	155	25 - 150	6.862017	6.69831	0.1637	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.30	107	25 - 150	7.455283	7.228673	0.2266	+/-1.00	
M6PFDA	1.65	133	25 - 150	8.615	8.325208	0.2898	+/-1.00	
M7PFUdA	1.65	133	25 - 150	9.078383	8.807389	0.2710	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.65	109	25 - 150	9.475616	9.254519	0.2211	+/-1.00	
M2PFTeDA	1.65	99.1	10 - 150	10.11962	10.01288	0.1067	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	13.2	81.6	25 - 150	1.168083	1.219727	-0.0516	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.16	114	25 - 150	8.113283	7.829089	0.2842	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.59	129	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.30	106	10 - 150	9.101267	8.806458	0.2948	+/-1.00	
d3-N-MeFOSAA	6.59	88.1	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	6.59	119	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	6.27	67.7	25 - 200	7.389633	7.170869	0.2188	+/-1.00	
M2-8:2 FTS	6.33	76.6	25 - 200	8.577133	8.28256	0.2946	+/-1.00	
M9PFNA	1.65	115	25 - 150	8.077766	7.796514	0.2813	+/-1.00	
M2-4:2 FTS	6.19	59.9	25 - 150	5.8601	5.828181	0.0319	+/-1.00	
d-N-MeFOSA	3.30	69.5	25 - 150	9.8498	9.706333	0.1435	+/-1.00	
d-N-EtFOSA	3.30	89.0	25 - 150	10.11655	10.01312	0.1034	+/-1.00	
M3HFPO-DA	13.2	127	25 - 150	6.225833	6.155542	0.0703	+/-1.00	
d9-N-EtFOSE	33.0	166	25 - 150	10.07617	9.96349	0.1127	+/-1.00	*
d7-N-MeFOSE	33.0	191	25 - 150	9.818434	9.668704	0.1497	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP8 (0-2.5ft) (23K0580-05)			Lab File ID: QQQ32237.d		Analyzed: 11/16/23 13:57			
M3PFBS	2.12	92.2	25 - 150	5.122617	5.154708	-0.0321	+/-1.00	
M5PFHxA	2.28	116	25 - 150	5.93605	5.896742	0.0393	+/-1.00	
M4PFHpA	2.28	121	25 - 150	6.76995	6.612394	0.1576	+/-1.00	
M3PFHxS	2.16	127	25 - 150	6.871267	6.69831	0.1730	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.28	98.6	25 - 150	7.4553	7.228673	0.2266	+/-1.00	
M6PFDA	1.14	124	25 - 150	8.615	8.325208	0.2898	+/-1.00	
M7PFUdA	1.14	117	25 - 150	9.069117	8.807389	0.2617	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.14	112	25 - 150	9.475616	9.254519	0.2211	+/-1.00	
M2PFTeDA	1.14	94.3	10 - 150	10.12883	10.01288	0.1160	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.14	8.07	25 - 150	1.168083	1.219727	-0.0516	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.18	111	25 - 150	8.113283	7.829089	0.2842	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.56	104	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.28	78.6	10 - 150	9.101267	8.806458	0.2948	+/-1.00	
d3-N-MeFOSAA	4.56	84.8	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	4.56	95.7	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	4.34	61.1	25 - 200	7.3989	7.170869	0.2280	+/-1.00	
M2-8:2 FTS	4.38	110	25 - 200	8.577133	8.28256	0.2946	+/-1.00	
M9PFNA	1.14	101	25 - 150	8.077766	7.796514	0.2813	+/-1.00	
M2-4:2 FTS	4.28	42.9	25 - 150	5.86935	5.828181	0.0412	+/-1.00	
d-N-MeFOSA	2.28	41.8	25 - 150	9.859016	9.706333	0.1527	+/-1.00	
d-N-EtFOSA	2.28	67.5	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	9.14	98.8	25 - 150	6.235083	6.155542	0.0795	+/-1.00	
d9-N-EtFOSE	22.8	129	25 - 150	10.07617	9.96349	0.1127	+/-1.00	
d7-N-MeFOSE	22.8	139	25 - 150	9.827666	9.668704	0.1590	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Sequence:	S3K1638	Instrument:	LCQQQ
		Calibration:	SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP8 (10-12.5ft) (23K0580-06)			Lab File ID: QQQ32238.d		Analyzed: 11/16/23 14:13			
M3PFBS	2.31	125	25 - 150	5.122617	5.154708	-0.0321	+/-1.00	
M5PFHxA	2.48	130	25 - 150	5.9453	5.896742	0.0486	+/-1.00	
M4PFHpA	2.48	146	25 - 150	6.76995	6.612394	0.1576	+/-1.00	
M3PFHxS	2.35	163	25 - 150	6.871267	6.69831	0.1730	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.48	122	25 - 150	7.4553	7.228673	0.2266	+/-1.00	
M6PFDA	1.24	141	25 - 150	8.615	8.325208	0.2898	+/-1.00	
M7PFUdA	1.24	144	25 - 150	9.078383	8.807389	0.2710	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.24	137	25 - 150	9.475616	9.254519	0.2211	+/-1.00	
M2PFTeDA	1.24	123	10 - 150	10.12883	10.01288	0.1160	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.94	11.7	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.38	120	25 - 150	8.113283	7.829089	0.2842	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.96	122	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.48	111	10 - 150	9.101267	8.806458	0.2948	+/-1.00	
d3-N-MeFOSAA	4.96	103	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	4.96	123	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	4.71	61.6	25 - 200	7.3989	7.170869	0.2280	+/-1.00	
M2-8:2 FTS	4.76	102	25 - 200	8.577133	8.28256	0.2946	+/-1.00	
M9PFNA	1.24	141	25 - 150	8.077766	7.796514	0.2813	+/-1.00	
M2-4:2 FTS	4.65	58.6	25 - 150	5.86935	5.828181	0.0412	+/-1.00	
d-N-MeFOSA	2.48	53.1	25 - 150	9.859016	9.706333	0.1527	+/-1.00	
d-N-EtFOSA	2.48	66.2	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	9.94	100	25 - 150	6.24435	6.155542	0.0888	+/-1.00	
d9-N-EtFOSE	24.8	147	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	24.8	172	25 - 150	9.827666	9.668704	0.1590	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP8 (14-16ft) (23K0580-07)			Lab File ID: QQQ32239.d		Analyzed: 11/16/23 14:29			
M3PFBS	2.51	105	25 - 150	5.1134	5.154708	-0.0413	+/-1.00	
M5PFHxA	2.70	120	25 - 150	5.93605	5.896742	0.0393	+/-1.00	
M4PFHpA	2.70	137	25 - 150	6.76995	6.612394	0.1576	+/-1.00	
M3PFHxS	2.55	144	25 - 150	6.871267	6.69831	0.1730	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.70	107	25 - 150	7.464567	7.228673	0.2359	+/-1.00	
M6PFDA	1.35	123	25 - 150	8.615	8.325208	0.2898	+/-1.00	
M7PFUdA	1.35	131	25 - 150	9.069117	8.807389	0.2617	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.35	129	25 - 150	9.46635	9.254519	0.2118	+/-1.00	
M2PFTeDA	1.35	97.1	10 - 150	10.1104	10.01288	0.0975	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.8	7.34	25 - 150	1.168083	1.219727	-0.0516	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.58	113	25 - 150	8.113283	7.829089	0.2842	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.39	82.2	25 - 150	4.329566	4.446487	-0.1169	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.70	90.2	10 - 150	9.09185	8.806458	0.2854	+/-1.00	
d3-N-MeFOSAA	5.39	83.3	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	5.39	105	25 - 150	9.049334	8.785462	0.2639	+/-1.00	
M2-6:2 FTS	5.12	53.3	25 - 200	7.3989	7.170869	0.2280	+/-1.00	
M2-8:2 FTS	5.17	80.8	25 - 200	8.577133	8.28256	0.2946	+/-1.00	
M9PFNA	1.35	128	25 - 150	8.087033	7.796514	0.2905	+/-1.00	
M2-4:2 FTS	5.06	42.0	25 - 150	5.8601	5.828181	0.0319	+/-1.00	
d-N-MeFOSA	2.70	41.5	25 - 150	9.840567	9.706333	0.1342	+/-1.00	
d-N-EtFOSA	2.70	68.6	25 - 150	10.10733	10.01312	0.0942	+/-1.00	
M3HFPO-DA	10.8	86.7	25 - 150	6.235083	6.155542	0.0795	+/-1.00	
d9-N-EtFOSE	27.0	132	25 - 150	10.06693	9.96349	0.1034	+/-1.00	
d7-N-MeFOSE	27.0	151	25 - 150	9.809216	9.668704	0.1405	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Sequence:	S3K1638	Instrument:	LCQQQ
		Calibration:	SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP8 (25-27.5ft) (23K0580-08)			Lab File ID: QQQ32242.d		Analyzed: 11/16/23 15:18			
M3PFBS	2.42	133	25 - 150	5.141067	5.154708	-0.0136	+/-1.00	
M5PFHxA	2.60	125	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	2.60	141	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	2.46	146	25 - 150	6.889783	6.69831	0.1915	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.60	108	25 - 150	7.492383	7.228673	0.2637	+/-1.00	
M6PFDA	1.30	104	25 - 150	8.6428	8.325208	0.3176	+/-1.00	
M7PFUdA	1.30	132	25 - 150	9.096867	8.807389	0.2895	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.30	111	25 - 150	9.494117	9.254519	0.2396	+/-1.00	
M2PFTeDA	1.30	106	10 - 150	10.13805	10.01288	0.1252	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.4	30.3	25 - 150	1.177267	1.219727	-0.0425	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.49	110	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.20	109	25 - 150	4.35715	4.446487	-0.0893	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.60	92.8	10 - 150	9.1291	8.806458	0.3226	+/-1.00	
d3-N-MeFOSAA	5.20	82.6	25 - 150	8.845417	8.533981	0.3114	+/-1.00	
d5-N-EtFOSAA	5.20	98.3	25 - 150	9.077383	8.785462	0.2919	+/-1.00	
M2-6:2 FTS	4.94	46.2	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	4.99	40.4	25 - 200	8.604934	8.28256	0.3224	+/-1.00	
M9PFNA	1.30	129	25 - 150	8.114883	7.796514	0.3184	+/-1.00	
M2-4:2 FTS	4.88	49.7	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	2.60	60.0	25 - 150	9.877483	9.706333	0.1711	+/-1.00	
d-N-EtFOSA	2.60	90.1	25 - 150	10.135	10.01312	0.1219	+/-1.00	
M3HFPO-DA	10.4	86.3	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	26.0	176	25 - 150	10.0946	9.96349	0.1311	+/-1.00	*
d7-N-MeFOSE	26.0	192	25 - 150	9.8369	9.668704	0.1682	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP10 (0-2.5ft) (23K0580-11)			Lab File ID: QQQ32243.d		Analyzed: 11/16/23 15:34			
M3PFBS	2.10	88.0	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	2.26	97.2	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	2.26	113	25 - 150	6.7982	6.612394	0.1858	+/-1.00	
M3PFHxS	2.14	133	25 - 150	6.899034	6.69831	0.2007	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.26	98.3	25 - 150	7.492383	7.228673	0.2637	+/-1.00	
M6PFDA	1.13	112	25 - 150	8.652066	8.325208	0.3269	+/-1.00	
M7PFUdA	1.13	111	25 - 150	9.106133	8.807389	0.2987	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.13	99.8	25 - 150	9.512617	9.254519	0.2581	+/-1.00	
M2PFTeDA	1.13	80.8	10 - 150	10.15658	10.01288	0.1437	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.05	2.81	25 - 150	1.168083	1.219727	-0.0516	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.16	105	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.52	20.5	25 - 150	4.366333	4.446487	-0.0802	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.26	88.8	10 - 150	9.138383	8.806458	0.3319	+/-1.00	
d3-N-MeFOSAA	4.52	51.3	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	4.52	71.8	25 - 150	9.0959	8.785462	0.3104	+/-1.00	
M2-6:2 FTS	4.29	37.9	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	4.34	54.1	25 - 200	8.6142	8.28256	0.3316	+/-1.00	
M9PFNA	1.13	117	25 - 150	8.114883	7.796514	0.3184	+/-1.00	
M2-4:2 FTS	4.24	31.3	25 - 150	5.8973	5.828181	0.0691	+/-1.00	
d-N-MeFOSA	2.26	61.2	25 - 150	9.886717	9.706333	0.1804	+/-1.00	
d-N-EtFOSA	2.26	71.0	25 - 150	10.15343	10.01312	0.1403	+/-1.00	
M3HFPO-DA	9.05	71.3	25 - 150	6.262866	6.155542	0.1073	+/-1.00	
d9-N-EtFOSE	22.6	149	25 - 150	10.11303	9.96349	0.1495	+/-1.00	
d7-N-MeFOSE	22.6	167	25 - 150	9.85535	9.668704	0.1866	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP10 (12.5-15ft) (23K0580-12)			Lab File ID: QQQ32244.d		Analyzed: 11/16/23 15:50			
M3PFBS	2.42	71.0	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	2.60	103	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	2.60	145	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	2.46	148	25 - 150	6.899034	6.69831	0.2007	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.60	118	25 - 150	7.492383	7.228673	0.2637	+/-1.00	
M6PFDA	1.29	153	25 - 150	8.6428	8.325208	0.3176	+/-1.00	*
M7PFUdA	1.29	134	25 - 150	9.10615	8.807389	0.2988	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.29	134	25 - 150	9.484867	9.254519	0.2303	+/-1.00	
M2PFTeDA	1.29	106	10 - 150	10.12883	10.01288	0.1160	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.4	3.83	25 - 150	1.18645	1.219727	-0.0333	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.48	126	25 - 150	8.1504	7.829089	0.3213	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.19	11.6	25 - 150	4.375533	4.446487	-0.0710	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.60	93.6	10 - 150	9.1291	8.806458	0.3226	+/-1.00	
d3-N-MeFOSAA	5.19	99.3	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	5.19	123	25 - 150	9.077383	8.785462	0.2919	+/-1.00	
M2-6:2 FTS	4.93	66.5	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	4.98	94.4	25 - 200	8.6142	8.28256	0.3316	+/-1.00	
M9PFNA	1.29	139	25 - 150	8.114883	7.796514	0.3184	+/-1.00	
M2-4:2 FTS	4.87	44.0	25 - 150	5.8973	5.828181	0.0691	+/-1.00	
d-N-MeFOSA	2.60	45.4	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.60	57.7	25 - 150	10.11655	10.01312	0.1034	+/-1.00	
M3HFPO-DA	10.4	72.7	25 - 150	6.262866	6.155542	0.1073	+/-1.00	
d9-N-EtFOSE	26.0	139	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	26.0	162	25 - 150	9.8369	9.668704	0.1682	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP10 (25-27.5ft) (23K0580-14)			Lab File ID: QQQ32246.d		Analyzed: 11/16/23 16:22			
M3PFBS	2.48	88.7	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	2.66	109	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	2.66	139	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	2.52	151	25 - 150	6.889783	6.69831	0.1915	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.66	126	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	1.33	131	25 - 150	8.652066	8.325208	0.3269	+/-1.00	
M7PFUdA	1.33	141	25 - 150	9.115417	8.807389	0.3080	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.33	125	25 - 150	9.512617	9.254519	0.2581	+/-1.00	
M2PFTeDA	1.33	107	10 - 150	10.15658	10.01288	0.1437	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.7	3.73	25 - 150	1.168083	1.219727	-0.0516	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.55	107	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.31	13.7	25 - 150	4.366333	4.446487	-0.0802	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.66	97.5	10 - 150	9.1291	8.806458	0.3226	+/-1.00	
d3-N-MeFOSAA	5.31	101	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	5.31	125	25 - 150	9.0959	8.785462	0.3104	+/-1.00	
M2-6:2 FTS	5.05	48.3	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	5.10	53.5	25 - 200	8.6142	8.28256	0.3316	+/-1.00	
M9PFNA	1.33	138	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	4.99	45.1	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	2.66	59.0	25 - 150	9.895933	9.706333	0.1896	+/-1.00	
d-N-EtFOSA	2.66	69.8	25 - 150	10.14422	10.01312	0.1311	+/-1.00	
M3HFPO-DA	10.7	90.2	25 - 150	6.262866	6.155542	0.1073	+/-1.00	
d9-N-EtFOSE	26.6	163	25 - 150	10.10382	9.96349	0.1403	+/-1.00	*
d7-N-MeFOSE	26.6	182	25 - 150	9.85535	9.668704	0.1866	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP1 (0-2.5ft) (23K0580-15)			Lab File ID: QQQ32247.d		Analyzed: 11/16/23 16:39			
M3PFBS	2.04	83.6	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	2.20	96.6	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	2.20	112	25 - 150	6.779183	6.612394	0.1668	+/-1.00	
M3PFHxS	2.08	120	25 - 150	6.880533	6.69831	0.1822	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.20	92.2	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	1.10	94.8	25 - 150	8.6428	8.325208	0.3176	+/-1.00	
M7PFUdA	1.10	92.1	25 - 150	9.096867	8.807389	0.2895	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.10	74.5	25 - 150	9.494117	9.254519	0.2396	+/-1.00	
M2PFTeDA	1.10	62.5	10 - 150	10.13805	10.01288	0.1252	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	8.80	8.99	25 - 150	1.177267	1.219727	-0.0425	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.10	101	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.39	100	25 - 150	4.384717	4.446487	-0.0618	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.20	75.1	10 - 150	9.119817	8.806458	0.3134	+/-1.00	
d3-N-MeFOSAA	4.39	66.6	25 - 150	8.845417	8.533981	0.3114	+/-1.00	
d5-N-EtFOSAA	4.39	75.6	25 - 150	9.077383	8.785462	0.2919	+/-1.00	
M2-6:2 FTS	4.17	61.9	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	4.22	108	25 - 200	8.604934	8.28256	0.3224	+/-1.00	
M9PFNA	1.10	89.6	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	4.12	35.5	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	2.20	32.3	25 - 150	9.877483	9.706333	0.1711	+/-1.00	
d-N-EtFOSA	2.20	41.6	25 - 150	10.135	10.01312	0.1219	+/-1.00	
M3HFPO-DA	8.80	88.0	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	22.0	84.4	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	22.0	99.7	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP1 (10-12.5ft) (23K0580-16)			Lab File ID: QQQ32248.d		Analyzed: 11/16/23 16:55			
M3PFBS	2.78	100	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	2.99	110	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	2.99	119	25 - 150	6.779183	6.612394	0.1668	+/-1.00	
M3PFHxS	2.83	129	25 - 150	6.880533	6.69831	0.1822	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.99	110	25 - 150	7.473834	7.228673	0.2452	+/-1.00	
M6PFDA	1.49	110	25 - 150	8.6428	8.325208	0.3176	+/-1.00	
M7PFUdA	1.49	137	25 - 150	9.10615	8.807389	0.2988	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.49	112	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	1.49	87.9	10 - 150	10.14727	10.01288	0.1344	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.0	24.1	25 - 150	1.177267	1.219727	-0.0425	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.86	112	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.97	96.0	25 - 150	4.375533	4.446487	-0.0710	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.99	90.6	10 - 150	9.119817	8.806458	0.3134	+/-1.00	
d3-N-MeFOSAA	5.97	85.2	25 - 150	8.845417	8.533981	0.3114	+/-1.00	
d5-N-EtFOSAA	5.97	103	25 - 150	9.077383	8.785462	0.2919	+/-1.00	
M2-6:2 FTS	5.68	49.1	25 - 200	7.408183	7.170869	0.2373	+/-1.00	
M2-8:2 FTS	5.74	64.5	25 - 200	8.604934	8.28256	0.3224	+/-1.00	
M9PFNA	1.49	107	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	5.61	44.4	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	2.99	63.0	25 - 150	9.877483	9.706333	0.1711	+/-1.00	
d-N-EtFOSA	2.99	77.6	25 - 150	10.135	10.01312	0.1219	+/-1.00	
M3HFPO-DA	12.0	106	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	29.9	153	25 - 150	10.0946	9.96349	0.1311	+/-1.00	*
d7-N-MeFOSE	29.9	181	25 - 150	9.846117	9.668704	0.1774	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K1638
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP1 (22.5-25ft) (23K0580-18)			Lab File ID: QQQ32250.d		Analyzed: 11/16/23 17:27			
M3PFBS	2.43	118	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	2.61	122	25 - 150	5.973	5.896742	0.0763	+/-1.00	
M4PFHpA	2.61	129	25 - 150	6.7982	6.612394	0.1858	+/-1.00	
M3PFHxS	2.47	142	25 - 150	6.899034	6.69831	0.2007	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.61	110	25 - 150	7.492383	7.228673	0.2637	+/-1.00	
M6PFDA	1.30	123	25 - 150	8.652066	8.325208	0.3269	+/-1.00	
M7PFUdA	1.30	131	25 - 150	9.10615	8.807389	0.2988	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.30	111	25 - 150	9.494117	9.254519	0.2396	+/-1.00	
M2PFTeDA	1.30	86.2	10 - 150	10.13805	10.01288	0.1252	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.5	107	25 - 150	1.18645	1.219727	-0.0333	+/-1.00	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.50	103	25 - 150	8.1504	7.829089	0.3213	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.22	134	25 - 150	4.375533	4.446487	-0.0710	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.61	110	10 - 150	9.1291	8.806458	0.3226	+/-1.00	
d3-N-MeFOSAA	5.22	85.3	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	5.22	117	25 - 150	9.08665	8.785462	0.3012	+/-1.00	
M2-6:2 FTS	4.96	56.6	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	5.01	53.0	25 - 200	8.6142	8.28256	0.3316	+/-1.00	
M9PFNA	1.30	107	25 - 150	8.114883	7.796514	0.3184	+/-1.00	
M2-4:2 FTS	4.90	53.3	25 - 150	5.8973	5.828181	0.0691	+/-1.00	
d-N-MeFOSA	2.61	70.5	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.61	75.8	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	10.5	125	25 - 150	6.262866	6.155542	0.1073	+/-1.00	
d9-N-EtFOSE	26.1	111	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	26.1	154	25 - 150	9.8369	9.668704	0.1682	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Sequence: S3K2056
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP10 (18-22ft) (23K0580-13RE1)			Lab File ID: QQQ32428.d		Analyzed: 11/20/23 18:56			
M3PFBS	2.40	89.7	25 - 150	5.20565	5.154708	0.0509	+/-1.00	
M5PFHxA	2.57	103	25 - 150	6.019183	5.896742	0.1224	+/-1.00	
M4PFHpA	2.57	158	25 - 150	6.854183	6.612394	0.2418	+/-1.00	*
M3PFHxS	2.44	130	25 - 150	6.95515	6.69831	0.2568	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.57	107	25 - 150	7.548367	7.228673	0.3197	+/-1.00	
M6PFDA	1.28	124	25 - 150	8.707666	8.325208	0.3825	+/-1.00	
M7PFUdA	1.28	132	25 - 150	9.171284	8.807389	0.3639	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.28	112	25 - 150	9.5777	9.254519	0.3232	+/-1.00	
M2PFTeDA	1.28	83.6	10 - 150	10.23947	10.01288	0.2266	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.3	5.23	25 - 150	1.23235	1.219727	0.0126	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.46	120	25 - 150	8.20755	7.829089	0.3785	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.14	32.6	25 - 150	4.4499	4.446487	0.0034	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.57	75.6	10 - 150	9.1291	8.806458	0.3226	+/-1.00	
d3-N-MeFOSAA	5.14	72.8	25 - 150	8.9104	8.533981	0.3764	+/-1.00	
d5-N-EtFOSAA	5.14	91.3	25 - 150	9.151567	8.785462	0.3661	+/-1.00	
M2-6:2 FTS	4.89	75.7	25 - 200	7.491617	7.170869	0.3207	+/-1.00	
M2-8:2 FTS	4.94	76.0	25 - 200	8.6698	8.28256	0.3872	+/-1.00	
M9PFNA	1.28	113	25 - 150	8.171117	7.796514	0.3746	+/-1.00	
M2-4:2 FTS	4.83	59.2	25 - 150	5.9441	5.828181	0.1159	+/-1.00	
d-N-MeFOSA	2.57	48.0	25 - 150	9.943117	9.706333	0.2368	+/-1.00	
d-N-EtFOSA	2.57	45.2	25 - 150	10.19907	10.01312	0.1860	+/-1.00	
M3HFPO-DA	10.3	106	25 - 150	6.31855	6.155542	0.1630	+/-1.00	
d9-N-EtFOSE	25.7	59.5	25 - 150	10.15965	9.96349	0.1962	+/-1.00	
d7-N-MeFOSE	25.7	66.2	25 - 150	9.9015	9.668704	0.2328	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Water		
Batch:	BK30905	Laboratory ID:	BK30905-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	250.05 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	151	324	214 *	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	307	381	124	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	300	310	103	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	304	373	123	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	1600	2180	137	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	1600	1730	108	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	320	115	35.9 *	50 - 150
9CL-PF3ONS	150	288	192 *	50 - 150
ADONA	151	324	214 *	50 - 150
HFPO-DA (Gen-X)	160	149	93.1	50 - 150
N-EtFOSA	80.0	67.2	84.0	50 - 150
N-EtFOSAA	80.0	91.8	115	50 - 150
N-EtFOSE	800	840	105	50 - 150
N-MeFOSA	80.0	69.9	87.4	50 - 150
N-MeFOSAA	80.0	108	135	50 - 150
N-MeFOSE	800	829	104	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	142	116	81.8	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	77.2	118	153 *	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	76.4	88.5	116	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	76.8	106	138	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	80.0	96.8	121	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	75.2	65.9	87.7	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	160	106	66.0	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	160	11.5	7.17 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	160	497	311 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	70.8	89.0	126	50 - 150
Perfluorodecanoic acid (PFDA)	80.0	80.5	101	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	77.6	86.9	112	50 - 150
Perfluorododecanoic acid (PFDoA)	80.0	94.5	118	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Water		
Batch:	BK30905	Laboratory ID:	BK30905-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	250.05 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	80.0	70.2	87.7	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	73.2	81.3	111	50 - 150
Perfluorohexanoic acid (PFHxA)	80.0	82.4	103	50 - 150
Perfluoro-n-butanoic acid (PFBA)	320	79.6	24.9 *	50 - 150
Perfluorononanoic acid (PFNA)	80.0	88.7	111	50 - 150
Perfluorooctanesulfonic acid (PFOS)	74.4	23.5	31.6 *	50 - 150
Perfluorooctanoic acid (PFOA)	80.0	96.3	120	50 - 150
Perfluoropentanoic acid (PFPeA)	160	171	107	50 - 150
Perfluorotetradecanoic acid (PFTA)	80.0	100	125	50 - 150
Perfluorotridecanoic acid (PFTrDA)	80.0	122	153 *	50 - 150
Perfluoroundecanoic acid (PFUnA)	80.0	97.2	122	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Water		
Batch:	BK30905	Laboratory ID:	BK30905-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.07 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	30.2	56.2	186 *	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	61.4	66.4	108	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	60.0	70.5	118	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	60.8	72.0	118	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	320	353	110	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	320	281	87.8	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	64.0	16.9	26.4 *	50 - 150
9CL-PF3ONS	29.9	50.2	168 *	50 - 150
ADONA	30.2	63.5	210 *	50 - 150
HFPO-DA (Gen-X)	32.0	31.3	97.9	50 - 150
N-EtFOSA	16.0	9.93	62.1	50 - 150
N-EtFOSAA	16.0	17.7	111	50 - 150
N-EtFOSE	160	156	97.8	50 - 150
N-MeFOSA	16.0	17.2	108	50 - 150
N-MeFOSAA	16.0	18.1	113	50 - 150
N-MeFOSE	160	177	110	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	28.5	22.4	78.7	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	15.4	21.5	139	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	15.3	17.5	114	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	15.4	19.7	128	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	16.0	21.8	136	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	15.0	14.2	94.7	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	32.0	19.8	61.8	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	32.0	1.88	5.89 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	32.0	72.4	226 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	14.2	16.9	120	50 - 150
Perfluorodecanoic acid (PFDA)	16.0	14.8	92.3	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	15.5	18.0	116	50 - 150
Perfluorododecanoic acid (PFDoA)	16.0	18.9	118	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Water		
Batch:	BK30905	Laboratory ID:	BK30905-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.07 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	16.0	13.6	84.9	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	14.6	3.25	22.2 *	50 - 150
Perfluorohexanoic acid (PFHxA)	16.0	15.3	95.5	50 - 150
Perfluoro-n-butanoic acid (PFBA)	64.0	24.3	37.9 *	50 - 150
Perfluorononanoic acid (PFNA)	16.0	17.1	107	50 - 150
Perfluorooctanesulfonic acid (PFOS)	14.9	5.15	34.6 *	50 - 150
Perfluorooctanoic acid (PFOA)	16.0	19.4	122	50 - 150
Perfluoropentanoic acid (PFPeA)	32.0	34.4	107	50 - 150
Perfluorotetradecanoic acid (PFTA)	16.0	15.7	98.3	50 - 150
Perfluorotridecanoic acid (PFTrDA)	16.0	22.8	143	50 - 150
Perfluoroundecanoic acid (PFUnA)	16.0	18.0	112	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30911	Laboratory ID:	BK30911-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	7.43	3.06	41.2 *	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.1	16.6	110	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.7	14.8	100	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	14.9	17.6	118	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	78.6	61.7	78.5	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	78.6	74.6	94.9	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	15.7	16.2	103	50 - 150
9CL-PF3ONS	7.35	3.76	51.2	50 - 150
ADONA	7.43	5.34	71.9	50 - 150
HFPO-DA (Gen-X)	7.86	5.38	68.4	50 - 150
N-EtFOSA	3.93	2.72	69.2	50 - 150
N-EtFOSAA	3.93	4.35	111	50 - 150
N-EtFOSE	39.3	36.6	93.0	50 - 150
N-MeFOSA	3.93	3.57	90.9	50 - 150
N-MeFOSAA	3.93	4.65	118	50 - 150
N-MeFOSE	39.3	34.5	87.9	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.99	6.40	91.5	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	3.79	3.84	101	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.75	5.04	134	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	3.77	4.16	110	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	3.93	4.59	117	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	3.69	3.97	107	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	7.86	6.35	80.9	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	7.86	7.37	93.8	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	7.86	7.22	91.9	50 - 150
Perfluorobutanesulfonic acid (PFBS)	3.48	3.73	107	50 - 150
Perfluorodecanoic acid (PFDA)	3.93	3.63	92.5	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.81	3.40	89.2	50 - 150
Perfluorododecanoic acid (PFDoA)	3.93	3.89	99.1	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30911	Laboratory ID:	BK30911-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	1.51	0.375	24.9 *	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.07	3.80	124	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.99	3.54	118	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.03	3.64	120	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	16.0	7.91	49.5 *	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	16.0	13.4	84.0	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	3.19	3.41	107	50 - 150
9CL-PF3ONS	1.49	0.442	29.6 *	50 - 150
ADONA	1.51	0.952	63.1	50 - 150
HFPO-DA (Gen-X)	1.60	1.20	74.9	50 - 150
N-EtFOSA	0.798	0.564	70.6	50 - 150
N-EtFOSAA	0.798	0.766	96.0	50 - 150
N-EtFOSE	7.98	7.49	93.8	50 - 150
N-MeFOSA	0.798	1.01	126	50 - 150
N-MeFOSAA	0.798	0.944	118	50 - 150
N-MeFOSE	7.98	7.54	94.4	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.42	1.32	92.7	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	0.770	1.17	152 *	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.762	1.27	166 *	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	0.766	0.964	126	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	0.798	0.987	124	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	0.750	1.00	134	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.60	1.23	76.9	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	1.60	1.56	97.9	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	1.60	1.44	89.9	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.707	0.771	109	50 - 150
Perfluorodecanoic acid (PFDA)	0.798	0.790	99.0	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.774	0.883	114	50 - 150
Perfluorododecanoic acid (PFDoA)	0.798	0.837	105	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK31249	Laboratory ID:	BK31249-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	7.49	8.30	111	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.2	16.5	109	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.9	15.3	103	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.0	16.6	110	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	79.2	98.6	124	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	79.2	87.3	110	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	9.97	63.0	50 - 150
9CL-PF3ONS	7.41	9.49	128	50 - 150
ADONA	7.49	10.5	141	50 - 150
HFPO-DA (Gen-X)	7.92	8.59	108	50 - 150
N-EtFOSA	3.96	3.60	90.9	50 - 150
N-EtFOSAA	3.96	4.01	101	50 - 150
N-EtFOSE	39.6	38.1	96.3	50 - 150
N-MeFOSA	3.96	3.88	97.9	50 - 150
N-MeFOSAA	3.96	4.24	107	50 - 150
N-MeFOSE	39.6	44.0	111	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.05	7.30	104	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	3.82	3.69	96.5	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.78	4.34	115	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	3.80	4.61	121	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	3.96	4.21	106	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	3.72	3.52	94.7	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	7.92	6.96	87.9	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	7.92	2.39	30.2 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	7.92	15.1	190 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	3.50	3.66	104	50 - 150
Perfluorodecanoic acid (PFDA)	3.96	3.87	97.8	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.84	2.98	77.6	50 - 150
Perfluorododecanoic acid (PFDoA)	3.96	4.10	104	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK31249	Laboratory ID:	BK31249-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	1.49	1.14	76.9	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.02	3.42	113	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.95	2.88	97.8	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	2.99	3.29	110	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	15.7	11.6	73.6	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	15.7	12.6	79.9	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	3.14	2.24	71.2	50 - 150
9CL-PF3ONS	1.47	1.21	82.4	50 - 150
ADONA	1.49	1.39	93.3	50 - 150
HFPO-DA (Gen-X)	1.57	1.35	85.9	50 - 150
N-EtFOSA	0.786	0.446	56.7	50 - 150
N-EtFOSAA	0.786	0.670	85.3	50 - 150
N-EtFOSE	7.86	7.16	91.1	50 - 150
N-MeFOSA	0.786	0.751	95.6	50 - 150
N-MeFOSAA	0.786	ND	*	50 - 150
N-MeFOSE	7.86	8.16	104	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.40	1.33	95.1	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	0.758	0.642	84.7	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.750	0.730	97.2	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	0.754	0.907	120	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	0.786	0.841	107	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	0.739	0.698	94.4	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.57	1.16	73.8	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	1.57	0.794	50.5	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	1.57	1.65	105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.695	0.733	105	50 - 150
Perfluorodecanoic acid (PFDA)	0.786	0.620	78.9	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.762	0.691	90.7	50 - 150
Perfluorododecanoic acid (PFDoA)	0.786	0.874	111	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK31249	Laboratory ID:	BK31249-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	0.786	0.503	64.0	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.719	0.700	97.4	50 - 150
Perfluorohexanoic acid (PFHxA)	0.786	0.722	91.9	50 - 150
Perfluoro-n-butanoic acid (PFBA)	3.14	2.80	89.1	50 - 150
Perfluorononanoic acid (PFNA)	0.786	0.824	105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.731	0.701	95.9	50 - 150
Perfluorooctanoic acid (PFOA)	0.786	0.706	89.8	50 - 150
Perfluoropentanoic acid (PFPeA)	1.57	1.33	84.4	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.786	0.732	93.2	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.786	1.22	155 *	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.786	0.770	98.0	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0580
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street
Matrix:	Water	Laboratory ID:	BK30905-BLK1	File ID:	QQQ32173.d
Prepared:	11/14/23 12:11	Preparation:	EPA 1633 Prep	Initial/Final:	250.04 mL / 5 mL
Analyzed:	11/15/23 12:46	Instrument:	LCQQQ		
Batch:	BK30905	Sequence:	S3K1554	Calibration:	SJ30009

CAS NO.	COMPOUND	CONC. (ng/L)	Q
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.66	U
307-24-4	Perfluorohexanoic acid (PFHxA)	4.00	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	3.64	J
375-95-1	Perfluorononanoic acid (PFNA)	4.00	U
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	3.72	U
335-67-1	Perfluorooctanoic acid (PFOA)	4.00	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	8.00	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	4.00	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	4.00	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	4.00	U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)		U
1180-95-6	Taurodeoxycholic Acid (TDCA)		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
d3-N-MeFOSAA	100	100	100	25 - 150	
d5-N-EtFOSAA	100	120	120	25 - 150	
d7-N-MeFOSE	500	1030	205	25 - 150	*
d9-N-EtFOSE	500	1020	205	25 - 150	*
d-N-EtFOSA	50.0	64.9	130	25 - 150	
d-N-MeFOSA	50.0	46.7	93.5	25 - 150	
M2-4:2 FTS	93.8	28.6	30.5	25 - 150	
M2-6:2 FTS	95.1	36.7	38.6	25 - 200	
M2-8:2 FTS	96.0	42.6	44.4	25 - 200	
M2PFTeDA	25.0	25.2	101	10 - 150	
M3HFPO-DA	200	141	70.5	25 - 150	
M3PFBS	46.6	32.2	69.2	25 - 150	
M3PFHxS	47.4	60.4	127	25 - 150	
M4PFHpA	50.0	66.4	133	25 - 150	
M5PFHxA	50.0	40.6	81.1	25 - 150	
M6PFDA	25.0	28.6	114	25 - 150	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Calibration: SJ30009
Instrument: LCQQQ
Calibration Date: 10/02/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
11CL-PF3OUdS	0.7105157	5.72859	9.081596	1.12874		0.9999776	0.995	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.1767107	39.01332	8.281806	1.276528		0.9900164	0.995	*
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.8242061	35.589	5.82754	0.3595247		0.993617	0.995	*
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.9425926	37.0172	7.170204	1.058431		0.9893765	0.995	*
3-Perfluoroheptyl propanoic acid (FHpPA)	0.1232525	18.86516	7.922573	1.290296		0.9997601	0.995	
3-Perfluoropentyl propanoic acid (FPePA)	0.1140748	23.52091	6.666288	0.6714893		0.9999763	0.995	
3-Perfluoropropyl propanoic acid (FPrPA)	1.634509E-02	18.00515	4.160234	1.484028		0.9999391	0.995	
9CL-PF3ONS	0.9740683	8.298783	8.14971	1.314775		0.9997536	0.995	
ADONA	0.4656269	3.342766	6.734537	0.7768405		0.9999391	0.995	
d3-N-MeFOSAA	1.894852	5.832011	8.533981	1.308346			20	
d5-N-EtFOSAA	1.482855	8.987748	8.785462	1.260937			20	
d7-N-MeFOSE	0.1096943	9.538321	9.668704	0.7211339			20	
d9-N-EtFOSE	5.742301E-02	7.356046	9.96349	0.5804035			20	
d-N-EtFOSA	0.1903151	10.33302	10.01312	0.575893			20	
d-N-MeFOSA	0.2894869	9.022579	9.706333	0.7114855			20	
HFPO-DA (Gen-X)	2.388122E-02	6.411962	6.156967	0.3209652		0.9996481	0.995	
M2-4:2 FTS	6.326992	31.98058	5.828181	0.3384551			20	*
M2-6:2 FTS	4.309265	36.08813	7.170869	1.065069			20	*
M2-8:2 FTS	6.068952	33.54427	8.28256	1.286257			20	*
M2PFTeDA	1.156149	7.866873	10.01288	0.5529907			20	
M3HFPO-DA	0.2387003	12.51329	6.155542	0.3513022			20	
M3PFBS	5.185494	6.486697	5.154708	0.9019837			20	
M3PFHxS	2.736241	5.94879	6.69831	0.8015715			20	
M4PFHpA	0.2080857	7.159001	6.612394	0.6834055			20	
M5PFHxA	1.507927	3.404123	5.896742	0.3016276			20	
M6PFDA	1.287883	10.7937	8.325208	1.310789			20	
M7PFUdA	2.052925	15.49362	8.807389	1.274563			20	
M9PFNA	0.2662851	5.998683	7.796514	1.281032			20	
N-EtFOSA	1.327838	11.78257	10.02456	0.583553		0.9987898	0.995	
N-EtFOSAA	0.9484482	3.422898	8.795117	1.254374		0.9998723	0.995	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32193.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1554	Injection Date:	11/15/23
Lab Sample ID:	S3K1554-CCV3	Injection Time:	18:09

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	10.7	0.7105157	0.7613881		13.1	30
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.2	0.1767107	0.2299335		16.2	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	10.1	0.8242061	1.014749		7.3	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.5	0.9425926	1.183424		10.0	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	53.6	0.1232525	0.1062126		-14.4	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	53.1	0.1140748	9.613857E-02		-15.2	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.4	1.634509E-02	1.261728E-02		-16.5	30
9CL-PF3ONS	A	9.35	10.4	0.9740683	0.9509885		11.1	30
ADONA	A	9.45	12.3	0.4656269	0.58082		29.9	30
HFPO-DA (Gen-X)	A	10.0	13.0	2.388122E-02	0.028935		30.1	30 *
N-EtFOSA	A	2.50	1.68	1.327838	0.824735		-33.0	30 *
N-EtFOSAA	A	2.50	2.59	0.9484482	0.95034		3.6	30
N-EtFOSE	A	25.0	22.7	2.103058	1.951665		-9.4	30
N-MeFOSA	A	2.50	2.33	0.9774397	0.9514373		-6.6	30
N-MeFOSAA	A	2.50	2.94	0.8340644	0.9406748		17.4	30
N-MeFOSE	A	25.0	22.2	1.016894	0.9665304		-11.3	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	8.21	1.083962	2.061238		84.5	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.54	0.8640874	0.8601437		5.5	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.60	2.706255	2.895252		9.1	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.59	2.040776	2.715976		49.5	30 *
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	3.14	1.543242	1.874446		25.7	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.36	1.56851	1.4607		0.4	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.19	1.750606E-02	3.556582E-02		83.9	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32193.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1554	Injection Date:	11/15/23
Lab Sample ID:	S3K1554-CCV3	Injection Time:	18:09

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.2	0.2760092	0.6239734		124	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.9	0.436862	0.9700196		118	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.29	0.9969591	1.027812		3.1	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.56	1.019014	1.114126		2.6	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	3.47	0.5852952	0.8439222		43.4	30 *
Perfluorododecanoic acid (PFDoA)	A	2.50	2.42	0.8320389	0.7760755		-3.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.08	4.129863	3.631984		-16.9	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.36	1.223553	1.144588		3.5	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.35	1.086996	1.0455		-6.0	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.90	0.8644747	0.864672		-1.0	30
Perfluorononanoic acid (PFNA)	A	2.50	2.50	3.375915	3.328439		-0.2	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.31	2.158758	2.010549		-0.4	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.60	1.023846	1.025034		4.2	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.86	1.028127	1.003765		-2.8	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.64	1.00277	1.021843		5.8	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.52	1.122388	1.124927		0.8	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.76	0.8100826	0.8814203		10.3	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32205.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1554	Injection Date:	11/15/23
Lab Sample ID:	S3K1554-CCV4	Injection Time:	21:22

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	10.4	0.7105157	0.7426753		10.4	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.7	0.1767107	0.2206		11.1	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	10.1	0.8242061	1.020602		8.0	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.9	0.9425926	1.227927		14.5	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	65.1	0.1232525	0.1287775		4.0	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	61.2	0.1140748	0.1108213		-2.2	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	13.4	1.634509E-02	1.624334E-02		7.4	30	
9CL-PF3ONS	A	9.35	10.5	0.9740683	0.9609162		12.3	30	
ADONA	A	9.45	10.9	0.4656269	0.5169131		15.7	30	
HFPO-DA (Gen-X)	A	10.0	12.0	2.388122E-02	2.663203E-02		19.8	30	
N-EtFOSA	A	2.50	2.11	1.327838	1.04118		-15.5	30	
N-EtFOSAA	A	2.50	2.56	0.9484482	0.9382708		2.3	30	
N-EtFOSE	A	25.0	20.9	2.103058	1.801635		-16.4	30	
N-MeFOSA	A	2.50	2.27	0.9774397	0.9274625		-9.0	30	
N-MeFOSAA	A	2.50	2.89	0.8340644	0.9267684		15.7	30	
N-MeFOSE	A	25.0	22.7	1.016894	0.9893017		-9.2	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	8.83	1.083962	2.2131		98.3	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.19	0.8640874	0.7399369		-9.2	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.47	2.706255	2.752613		3.7	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.02	2.040776	2.289732		26.0	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	3.08	1.543242	1.840378		23.4	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.38	1.56851	1.472605		1.2	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.46	1.750606E-02	3.280677E-02		69.3	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32205.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1554	Injection Date:	11/15/23
Lab Sample ID:	S3K1554-CCV4	Injection Time:	21:22

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	10.9	0.2760092	0.6077744		119	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.8	0.436862	0.9592353		115	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.28	0.9969591	1.022246		2.5	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.29	1.019014	0.995359		-8.4	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	3.06	0.5852952	0.7450826		26.5	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.56	0.8320389	0.819418		2.2	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.04	4.129863	3.563498		-18.4	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.27	1.223553	1.102352		-0.3	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.24	1.086996	0.9951994		-10.6	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	10.0	0.8644747	0.8773438		0.4	30
Perfluorononanoic acid (PFNA)	A	2.50	2.51	3.375915	3.346273		0.3	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.20	2.158758	1.91608		-5.1	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.78	1.023846	1.093812		11.2	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.88	1.028127	1.006864		-2.5	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.78	1.00277	1.074938		11.3	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.76	1.122388	1.23189		10.4	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.72	0.8100826	0.8698936		8.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32225.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1638	Injection Date:	11/16/23
Lab Sample ID:	S3K1638-CCV1	Injection Time:	10:44

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	12.1	0.7105157	0.8605249		27.7	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.2	0.1767107	0.2118959		6.3	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.48	0.8242061	0.9591426		1.0	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.7	0.9425926	1.313393		23.2	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	61.1	0.1232525	0.1208791		-2.5	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	61.7	0.1140748	0.1116831		-1.4	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	13.6	1.634509E-02	1.651157E-02		9.2	30	
9CL-PF3ONS	A	9.35	11.7	0.9740683	1.069825		24.9	30	
ADONA	A	9.45	11.6	0.4656269	0.5484564		22.7	30	
HFPO-DA (Gen-X)	A	10.0	12.0	2.388122E-02	2.665169E-02		19.9	30	
N-EtFOSA	A	2.50	2.72	1.327838	1.342105		8.7	30	
N-EtFOSAA	A	2.50	2.57	0.9484482	0.9445513		3.0	30	
N-EtFOSE	A	25.0	24.2	2.103058	2.084238		-3.2	30	
N-MeFOSA	A	2.50	2.33	0.9774397	0.9503833		-6.7	30	
N-MeFOSAA	A	2.50	2.73	0.8340644	0.8742064		9.2	30	
N-MeFOSE	A	25.0	24.0	1.016894	1.047977		-3.8	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.21	1.083962	2.308433		107	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.57	0.8640874	0.8673771		6.4	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.54	2.706255	2.837303		6.9	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.92	2.040776	2.214607		21.8	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.87	1.543242	1.713667		14.9	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.35	1.56851	1.452728		-0.2	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.77	1.750606E-02	3.395145E-02		75.3	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32225.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1638	Injection Date:	11/16/23
Lab Sample ID:	S3K1638-CCV1	Injection Time:	10:44

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.1	0.2760092	0.6153118		121	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.9	0.436862	0.9676886		117	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.33	0.9969591	1.044556		4.8	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.32	1.019014	1.00758		-7.2	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.79	0.5852952	0.6800568		15.5	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.68	0.8320389	0.8588277		7.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.27	4.129863	3.969717		-9.2	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.25	1.223553	1.093094		-1.1	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.25	1.086996	0.999475		-10.2	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.96	0.8644747	0.8701846		-0.4	30
Perfluorononanoic acid (PFNA)	A	2.50	2.37	3.375915	3.157631		-5.3	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.22	2.158758	1.930287		-4.4	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.65	1.023846	1.042868		6.0	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.92	1.028127	1.016358		-1.6	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.84	1.00277	1.099307		13.8	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.76	1.122388	1.229835		10.2	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.68	0.8100826	0.8558727		7.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32240.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1638	Injection Date:	11/16/23
Lab Sample ID:	S3K1638-CCV2	Injection Time:	14:45

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	19.3	0.7105157	1.380168		104	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.0	0.1767107	0.2275632		14.9	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	10.2	0.8242061	1.029824		9.0	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	9.52	0.9425926	1.085811		0.3	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	40.4	0.1232525	8.018257E-02		-35.5	30 *
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	33.8	0.1140748	6.135887E-02		-46.1	30 *
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	6.31	1.634509E-02	7.607313E-03		-49.6	30 *
9CL-PF3ONS	A	9.35	15.4	0.9740683	1.413744		64.9	30 *
ADONA	A	9.45	19.2	0.4656269	0.9101725		103	30 *
HFPO-DA (Gen-X)	A	10.0	12.3	2.388122E-02	2.740173E-02		23.3	30
N-EtFOSA	A	2.50	1.55	1.327838	0.7633488		-37.9	30 *
N-EtFOSAA	A	2.50	2.70	0.9484482	0.9894706		7.9	30
N-EtFOSE	A	25.0	22.4	2.103058	1.926908		-10.5	30
N-MeFOSA	A	2.50	2.43	0.9774397	0.9923395		-2.6	30
N-MeFOSAA	A	2.50	2.59	0.8340644	0.8304186		3.7	30
N-MeFOSE	A	25.0	23.5	1.016894	1.024529		-6.0	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	7.23	1.083962	1.816902		62.4	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	3.70	0.8640874	1.251327		53.7	30 *
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.48	2.706255	2.764009		4.1	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.84	2.040776	2.902673		59.9	30 *
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.91	1.543242	1.736539		16.4	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.42	1.56851	1.499478		3.0	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.53	1.750606E-02	3.306227E-02		70.6	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32240.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1638	Injection Date:	11/16/23
Lab Sample ID:	S3K1638-CCV2	Injection Time:	14:45

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.5	0.2760092	0.6368698		129	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.6	0.436862	0.9446492		112	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.34	0.9969591	1.048945		5.2	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.58	1.019014	1.119963		3.1	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	4.23	0.5852952	1.028978		74.9	30 *
Perfluorododecanoic acid (PFDoA)	A	2.50	2.81	0.8320389	0.9021077		12.5	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.24	4.129863	3.918317		-10.3	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.43	1.223553	1.176783		6.4	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.27	1.086996	1.011765		-9.1	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.97	0.8644747	0.8706361		-0.3	30
Perfluorononanoic acid (PFNA)	A	2.50	2.66	3.375915	3.541796		6.2	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.30	2.158758	2.004005		-0.7	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.74	1.023846	1.077602		9.5	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.86	1.028127	1.003866		-2.8	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.80	1.00277	1.081866		12.0	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.87	1.122388	1.282342		15.0	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.76	0.8100826	0.8815165		10.3	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32252.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1638	Injection Date:	11/16/23
Lab Sample ID:	S3K1638-CCV3	Injection Time:	18:05

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.5	0.7105157	0.8176052		21.4	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.3	0.1767107	0.2322747		17.5	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	10.1	0.8242061	1.0141		7.2	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.3	0.9425926	1.268787		18.7	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	58.5	0.1232525	0.1159591		-6.5	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	50.6	0.1140748	9.168831E-02		-19.2	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.8	1.634509E-02	1.309098E-02		-13.4	30	
9CL-PF3ONS	A	9.35	9.94	0.9740683	0.9099548		6.3	30	
ADONA	A	9.45	11.1	0.4656269	0.525883		17.6	30	
HFPO-DA (Gen-X)	A	10.0	11.2	2.388122E-02	2.492512E-02		12.1	30	
N-EtFOSA	A	2.50	1.81	1.327838	0.8903451		-27.7	30	
N-EtFOSAA	A	2.50	2.61	0.9484482	0.9570805		4.3	30	
N-EtFOSE	A	25.0	23.0	2.103058	1.979913		-8.1	30	
N-MeFOSA	A	2.50	2.50	0.9774397	1.017821		-0.1	30	
N-MeFOSAA	A	2.50	2.71	0.8340644	0.8683763		8.4	30	
N-MeFOSE	A	25.0	23.2	1.016894	1.013122		-7.1	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	7.83	1.083962	1.967666		76.1	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.80	0.8640874	0.9455854		16.1	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.49	2.706255	2.775283		4.6	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.17	2.040776	2.400027		32.1	30	*
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	3.04	1.543242	1.812895		21.5	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.35	1.56851	1.453706		-0.1	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.15	1.750606E-02	3.541205E-02		83.1	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32252.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1638	Injection Date:	11/16/23
Lab Sample ID:	S3K1638-CCV3	Injection Time:	18:05

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.0	0.2760092	0.613146		121	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.6	0.436862	0.9489668		113	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.35	0.9969591	1.054913		5.8	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.31	1.019014	1.004501		-7.5	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	3.35	0.5852952	0.8157507		38.6	30 *
Perfluorododecanoic acid (PFDoA)	A	2.50	2.60	0.8320389	0.8346986		4.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	1.98	4.129863	3.457448		-20.8	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.30	1.223553	1.114314		0.8	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.27	1.086996	1.012228		-9.0	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.88	0.8644747	0.863529		-1.2	30
Perfluorononanoic acid (PFNA)	A	2.50	2.24	3.375915	2.991028		-10.3	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.44	2.158758	2.123838		5.2	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.45	1.023846	0.9633957		-2.1	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.84	1.028127	0.9997326		-3.2	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.72	1.00277	1.050318		8.7	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.64	1.122388	1.17648		5.4	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.60	0.8100826	0.8295313		3.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32422.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2056	Injection Date:	11/20/23
Lab Sample ID:	S3K2056-CCV1	Injection Time:	16:29

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	13.4	0.7105157	0.7763658		41.7	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.3	0.1767107	0.2252226		18.1	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.74	0.8242061	0.9785256		3.8	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.9	0.9425926	1.198354		14.5	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	64.7	0.1232525	0.1248955		3.4	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	57.4	0.1140748	0.1090619		-8.3	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.4	1.634509E-02	1.735008E-02		-16.4	30
9CL-PF3ONS	A	9.35	14.2	0.9740683	1.196614		52.4	30 *
ADONA	A	9.45	12.1	0.4656269	0.5691691		27.9	30
HFPO-DA (Gen-X)	A	10.0	13.3	2.388122E-02	0.028068		32.7	30 *
N-EtFOSA	A	2.50	1.57	1.327838	0.9479914		-37.4	30 *
N-EtFOSAA	A	2.50	2.40	0.9484482	0.9354951		-4.2	30
N-EtFOSE	A	25.0	24.5	2.103058	1.980001		-1.8	30
N-MeFOSA	A	2.50	2.25	0.9774397	0.9293122		-10.0	30
N-MeFOSAA	A	2.50	2.70	0.8340644	0.9343471		7.8	30
N-MeFOSE	A	25.0	30.4	1.016894	1.078216		21.6	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	10.2	1.083962	2.331659		128	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.28	0.8640874	0.7087408		-5.6	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.15	2.706255	2.55919		-9.6	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.72	2.040776	2.00497		13.5	30
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.73	1.543242	1.619981		9.3	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.36	1.56851	1.514642		0.6	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.25	1.750606E-02	0.0324655		85.0	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32422.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2056	Injection Date:	11/20/23
Lab Sample ID:	S3K2056-CCV1	Injection Time:	16:29

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	10.3	0.2760092	0.6409668		106	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	11.5	0.436862	0.9740735		129	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.23	0.9969591	1.012712		0.5	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.59	1.019014	1.088209		3.6	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.52	0.5852952	0.530019		4.0	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.80	0.8320389	0.8395731		12.0	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	1.73	4.129863	3.290936		-30.6	30 *
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.48	1.223553	1.240076		8.9	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.39	1.086996	1.003357		-4.4	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.78	0.8644747	0.8787443		-2.2	30
Perfluorononanoic acid (PFNA)	A	2.50	3.17	3.375915	3.463101		26.6	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.16	2.158758	1.98452		-6.9	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.58	1.023846	1.045047		3.3	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.73	1.028127	1.016187		-5.3	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.34	1.00277	0.9703506		-6.2	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.88	1.122388	1.302289		15.3	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.84	0.8100826	0.8878683		13.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32430.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2056	Injection Date:	11/20/23
Lab Sample ID:	S3K2056-CCV2	Injection Time:	19:28

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	14.4	0.7105157	0.8374267		52.5	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.8	0.1767107	0.2341912		23.2	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.92	0.8242061	0.9953674		5.7	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.3	0.9425926	1.24383		19.2	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	64.8	0.1232525	0.1251273		3.6	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	55.6	0.1140748	0.1056909		-11.2	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	9.59	1.634509E-02	1.592606E-02		-23.3	30
9CL-PF3ONS	A	9.35	13.6	0.9740683	1.142735		45.6	30 *
ADONA	A	9.45	11.8	0.4656269	0.5561344		25.0	30
HFPO-DA (Gen-X)	A	10.0	12.7	2.388122E-02	2.685494E-02		27.0	30
N-EtFOSA	A	2.50	1.46	1.327838	0.8847337		-41.5	30 *
N-EtFOSAA	A	2.50	2.45	0.9484482	0.9554335		-2.2	30
N-EtFOSE	A	25.0	23.4	2.103058	1.891122		-6.2	30
N-MeFOSA	A	2.50	2.22	0.9774397	0.9173576		-11.2	30
N-MeFOSAA	A	2.50	2.71	0.8340644	0.937711		8.2	30
N-MeFOSE	A	25.0	27.4	1.016894	0.9710105		9.7	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.92	1.083962	2.276152		123	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.71	0.8640874	0.8431735		12.4	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.21	2.706255	2.62738		-7.2	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.04	2.040776	2.234838		26.6	30
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.71	1.543242	1.607003		8.4	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.17	1.56851	1.39044		-7.6	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.94	1.750606E-02	3.482735E-02		98.7	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32430.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2056	Injection Date:	11/20/23
Lab Sample ID:	S3K2056-CCV2	Injection Time:	19:28

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	10.4	0.2760092	0.6453691		107	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	11.4	0.436862	0.9695309		128	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.29	0.9969591	1.039884		3.2	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.50	1.019014	1.051632		0.1	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.52	0.5852952	0.5297048		4.0	30
Perfluorododecanoic acid (PFDoA)	A	2.50	3.09	0.8320389	0.9262455		23.5	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	1.82	4.129863	3.453596		-27.2	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.13	1.223553	1.06284		-6.6	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.51	1.086996	1.054479		0.4	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.71	0.8644747	0.8726018		-2.9	30
Perfluorononanoic acid (PFNA)	A	2.50	3.10	3.375915	3.390189		24.0	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.26	2.158758	2.073075		-2.7	30
Perfluorooctanoic acid (PFOA)	A	2.50	3.06	1.023846	1.23698		22.3	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.68	1.028127	1.004732		-6.4	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.55	1.00277	1.054705		2.0	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.78	1.122388	1.257248		11.3	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.86	0.8100826	0.8965782		14.5	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Matrix: Soil
Batch: BK30664
Laboratory ID: BK30664-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.	QC LIMITS REC.
Aluminum	9490	7840	82.6	45.4 - 128.6
Antimony	248	48.2	19.4	3 - 103.2
Arsenic	163	130	79.9	68.7 - 100.6
Barium	319	301	94.3	82.5 - 115.7
Beryllium	119	97.5	81.9	77.7 - 109.2
Cadmium	130	109	83.9	75.2 - 106.2
Calcium	5000	4510	90.1	80.6 - 114.4
Chromium	153	138	90.0	77.8 - 111.8
Cobalt	153	137	89.7	79.1 - 109.8
Copper	245	235	95.8	80.4 - 111
Iron	7540	7170	95.1	69.8 - 144.6
Lead	220	192	87.2	80 - 113.6
Magnesium	1980	1960	99.1	85.9 - 129.3
Manganese	431	401	93.1	79.6 - 114.2
Nickel	175	156	89.0	76.6 - 108.6
Potassium	1570	1600	102	80.9 - 131.2
Selenium	156	150	96.4	80.8 - 118.6
Silver	82.9	52.0	62.7 *	76.7 - 114.7
Sodium	453	980	216 *	72.2 - 119.7
Thallium	99.4	80.7	81.2	75.8 - 110.7
Vanadium	170	146	86.0	75.3 - 114.1
Zinc	201	342	170 *	79.6 - 115.92

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Matrix: Soil
Batch: BK30665
Laboratory ID: BK30665-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.	QC LIMITS REC.
Aluminum	9490	8890	93.6	45.4 - 128.6
Antimony	248	49.3	19.9	3 - 103.2
Arsenic	163	141	86.6	68.7 - 100.6
Barium	319	317	99.4	82.5 - 115.7
Beryllium	119	94.0	79.0	77.7 - 109.2
Cadmium	130	111	85.6	75.2 - 106.2
Calcium	5000	4780	95.6	80.6 - 114.4
Chromium	153	144	94.1	77.8 - 111.8
Cobalt	153	145	94.9	79.1 - 109.8
Copper	245	245	100	80.4 - 111
Iron	7540	7630	101	69.8 - 144.6
Lead	220	209	95.2	80 - 113.6
Magnesium	1980	2140	108	85.9 - 129.3
Manganese	431	402	93.3	79.6 - 114.2
Nickel	175	164	93.7	76.6 - 108.6
Potassium	1570	1700	108	80.9 - 131.2
Selenium	156	158	102	80.8 - 118.6
Silver	82.9	75.7	91.4	76.7 - 114.7
Sodium	453	579	128 *	72.2 - 119.7
Thallium	99.4	81.0	81.5	75.8 - 110.7
Vanadium	170	156	91.8	75.3 - 114.1
Zinc	201	355	177 *	79.6 - 115.92

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Matrix: Soil
Batch: BK30822
Laboratory ID: BK30822-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.	QC LIMITS REC.
Aluminum	9490	8410	88.6	45.4 - 128.6
Antimony	248	62.5	25.2	3 - 103.2
Arsenic	163	133	81.8	68.7 - 100.6
Barium	319	309	97.0	82.5 - 115.7
Beryllium	119	99.0	83.2	77.7 - 109.2
Cadmium	130	111	85.0	75.2 - 106.2
Calcium	5000	4450	89.1	80.6 - 114.4
Chromium	153	137	89.3	77.8 - 111.8
Cobalt	153	138	90.0	79.1 - 109.8
Copper	245	227	92.8	80.4 - 111
Iron	7540	7330	97.3	69.8 - 144.6
Lead	220	196	88.9	80 - 113.6
Magnesium	1980	1980	100	85.9 - 129.3
Manganese	431	393	91.1	79.6 - 114.2
Nickel	175	156	89.1	76.6 - 108.6
Potassium	1570	1620	103	80.9 - 131.2
Selenium	156	154	98.4	80.8 - 118.6
Silver	82.9	57.7	69.6 *	76.7 - 114.7
Sodium	453	542	120 *	72.2 - 119.7
Thallium	99.4	82.8	83.3	75.8 - 110.7
Vanadium	170	146	85.7	75.3 - 114.1
Zinc	201	339	169 *	79.6 - 115.92

* Values outside of QC limits

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC

Instrument ID: AvioICP Project: 220293 100 East 149th Street

Sequence: S3K1437 Calibration: 11/14/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BK30822-BLK1	Aluminum	0.515	4.17	mg/kg wet		EPA 6010D
	Antimony	0.295	2.08	mg/kg wet		EPA 6010D
	Arsenic	-0.298	1.25	mg/kg wet		EPA 6010D
	Barium	0.009	2.08	mg/kg wet		EPA 6010D
	Beryllium	-0.009	0.042	mg/kg wet		EPA 6010D
	Cadmium	0.009	0.250	mg/kg wet		EPA 6010D
	Calcium	4.90	4.17	mg/kg wet	*	EPA 6010D
	Chromium	0.024	0.417	mg/kg wet		EPA 6010D
	Cobalt	-0.015	0.333	mg/kg wet		EPA 6010D
	Copper	0.017	1.67	mg/kg wet		EPA 6010D
	Iron	0.211	20.8	mg/kg wet		EPA 6010D
	Lead	0.425	0.417	mg/kg wet	*	EPA 6010D
	Magnesium	-0.095	4.17	mg/kg wet		EPA 6010D
	Manganese	0.006	0.417	mg/kg wet		EPA 6010D
	Nickel	0.064	0.830	mg/kg wet		EPA 6010D
	Potassium	1.55	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.738	2.08	mg/kg wet		EPA 6010D
	Silver	-0.123	0.420	mg/kg wet		EPA 6010D
	Sodium	-3.97	41.7	mg/kg wet		EPA 6010D
	Thallium	0.254	2.08	mg/kg wet		EPA 6010D
	Vanadium	0.017	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.021	2.08	mg/kg wet		EPA 6010D
S3K1437-CCB5	Aluminum	0.008	0.050	ug/mL		EPA 6010D
	Antimony	0.002	0.025	ug/mL		EPA 6010D
	Arsenic	-0.002	0.015	ug/mL		EPA 6010D
	Barium	0.0001	0.025	ug/mL		EPA 6010D
	Beryllium	-0.00008	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0002	0.003	ug/mL		EPA 6010D
	Calcium	0.024	0.050	ug/mL		EPA 6010D
	Chromium	0.001	0.005	ug/mL		EPA 6010D
	Cobalt	0.0001	0.004	ug/mL		EPA 6010D
	Copper	0.002	0.020	ug/mL		EPA 6010D
	Iron	0.002	0.250	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0580

Client: Touchstone Environmental Geology, PC

Instrument ID: AvioICP Project: 220293 100 East 149th Street

Sequence: S3K1448 Calibration: 11/14/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BK30665-BLK1	Aluminum	0.831	4.17	mg/kg wet		EPA 6010D
	Antimony	-0.122	2.08	mg/kg wet		EPA 6010D
	Arsenic	0.014	1.25	mg/kg wet		EPA 6010D
	Barium	0.060	2.08	mg/kg wet		EPA 6010D
	Beryllium	-0.015	0.042	mg/kg wet		EPA 6010D
	Cadmium	0.007	0.250	mg/kg wet		EPA 6010D
	Calcium	5.35	4.17	mg/kg wet	*	EPA 6010D
	Chromium	0.013	0.417	mg/kg wet		EPA 6010D
	Cobalt	0.045	0.333	mg/kg wet		EPA 6010D
	Copper	0.003	1.67	mg/kg wet		EPA 6010D
	Iron	0.781	20.8	mg/kg wet		EPA 6010D
	Lead	1.13	0.417	mg/kg wet	*	EPA 6010D
	Magnesium	0.153	4.17	mg/kg wet		EPA 6010D
	Manganese	0.012	0.417	mg/kg wet		EPA 6010D
	Nickel	0.064	0.830	mg/kg wet		EPA 6010D
	Potassium	1.14	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.782	2.08	mg/kg wet		EPA 6010D
	Silver	-0.127	0.420	mg/kg wet		EPA 6010D
	Sodium	-7.32	41.7	mg/kg wet		EPA 6010D
	Thallium	0.482	2.08	mg/kg wet		EPA 6010D
	Vanadium	0.017	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.009	2.08	mg/kg wet		EPA 6010D
S3K1448-CCB7	Aluminum	0.007	0.050	ug/mL		EPA 6010D
	Antimony	0.004	0.025	ug/mL		EPA 6010D
	Arsenic	0.002	0.015	ug/mL		EPA 6010D
	Barium	0.0004	0.025	ug/mL		EPA 6010D
	Beryllium	-0.0001	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.00001	0.003	ug/mL		EPA 6010D
	Calcium	0.025	0.050	ug/mL		EPA 6010D
	Chromium	0.001	0.005	ug/mL		EPA 6010D
	Cobalt	0.0005	0.004	ug/mL		EPA 6010D
	Copper	0.002	0.020	ug/mL		EPA 6010D
	Iron	0.002	0.250	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Instrument ID: AvioICP
Project: 220293 100 East 149th Street
Sequence: S3K1604
Calibration: 11/15/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BK30664-BLK1	Aluminum	1.56	4.17	mg/kg wet		EPA 6010D
	Antimony	-0.077	2.08	mg/kg wet		EPA 6010D
	Arsenic	0.186	1.25	mg/kg wet		EPA 6010D
	Barium	0.062	2.08	mg/kg wet		EPA 6010D
	Beryllium	-0.031	0.042	mg/kg wet		EPA 6010D
	Cadmium	0.018	0.250	mg/kg wet		EPA 6010D
	Calcium	45.2	4.17	mg/kg wet	*	EPA 6010D
	Chromium	0.009	0.417	mg/kg wet		EPA 6010D
	Cobalt	0.019	0.333	mg/kg wet		EPA 6010D
	Copper	0.199	1.67	mg/kg wet		EPA 6010D
	Iron	3.06	20.8	mg/kg wet		EPA 6010D
	Lead	0.026	0.417	mg/kg wet		EPA 6010D
	Magnesium	0.193	4.17	mg/kg wet		EPA 6010D
	Manganese	0.043	0.417	mg/kg wet		EPA 6010D
	Nickel	0.395	0.830	mg/kg wet		EPA 6010D
	Potassium	-2.68	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.296	2.08	mg/kg wet		EPA 6010D
	Silver	0.042	0.420	mg/kg wet		EPA 6010D
	Sodium	34.7	41.7	mg/kg wet		EPA 6010D
	Thallium	0.145	2.08	mg/kg wet		EPA 6010D
	Vanadium	0.025	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.113	2.08	mg/kg wet		EPA 6010D
S3K1604-CCB9	Aluminum	-0.0009	0.050	ug/mL		EPA 6010D
	Antimony	0.005	0.025	ug/mL		EPA 6010D
	Arsenic	-0.0009	0.015	ug/mL		EPA 6010D
	Barium	-0.00003	0.025	ug/mL		EPA 6010D
	Beryllium	-0.0004	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0003	0.003	ug/mL		EPA 6010D
	Calcium	0.002	0.050	ug/mL		EPA 6010D
	Chromium	0.0002	0.005	ug/mL		EPA 6010D
	Cobalt	0.0001	0.004	ug/mL		EPA 6010D
	Copper	-0.0007	0.020	ug/mL		EPA 6010D
	Iron	0.002	0.250	ug/mL		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1602

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1602-ICV1	Aluminum	10.0	9.85	98.5	ug/mL	EPA 6010D
	Antimony	0.250	0.253	101	ug/mL	EPA 6010D
	Arsenic	0.250	0.253	101	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.252	101	ug/mL	EPA 6010D
	Cadmium	0.125	0.130	104	ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.5	ug/mL	EPA 6010D
	Chromium	1.00	0.985	98.5	ug/mL	EPA 6010D
	Cobalt	2.50	2.51	100	ug/mL	EPA 6010D
	Copper	1.25	1.24	99.4	ug/mL	EPA 6010D
	Iron	5.00	5.09	102	ug/mL	EPA 6010D
	Lead	0.250	0.263	105	ug/mL	EPA 6010D
	Magnesium	25.0	25.4	101	ug/mL	EPA 6010D
	Manganese	2.50	2.53	101	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Potassium	25.0	24.9	99.7	ug/mL	EPA 6010D
	Selenium	0.250	0.271	109	ug/mL	EPA 6010D
	Silver	1.25	1.23	98.6	ug/mL	EPA 6010D
	Sodium	25.0	25.2	101	ug/mL	EPA 6010D
	Thallium	0.250	0.283	113 *	ug/mL	EPA 6010D
	Vanadium	2.50	2.50	100	ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.7	ug/mL	EPA 6010D
S3K1602-CCV1	Aluminum	10.0	10.2	102	ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.5 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.496	99.2	ug/mL	EPA 6010D
	Barium	10.0	10.4	104	ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100	ug/mL	EPA 6010D
	Calcium	25.0	25.5	102	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102	ug/mL	EPA 6010D
	Copper	1.25	1.27	101	ug/mL	EPA 6010D
	Iron	5.00	5.20	104	ug/mL	EPA 6010D
	Lead	0.500	0.505	101	ug/mL	EPA 6010D
	Magnesium	25.0	25.9	104	ug/mL	EPA 6010D
	Manganese	2.50	2.58	103	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1602

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1602-CCV1	Potassium	5.00	5.22	104	ug/mL	EPA 6010D
	Selenium	0.500	0.518	104	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Sodium	25.0	25.5	102	ug/mL	EPA 6010D
	Thallium	0.500	0.513	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.54	102	ug/mL	EPA 6010D
	Zinc	2.50	2.52	101	ug/mL	EPA 6010D
S3K1602-CCV3	Aluminum	10.0	9.28	92.8	ug/mL	EPA 6010D
	Antimony	0.250	0.208	83.0 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.495	98.9	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.258	103	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100	ug/mL	EPA 6010D
	Calcium	25.0	23.3	93.3	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.57	103	ug/mL	EPA 6010D
	Copper	1.25	1.27	101	ug/mL	EPA 6010D
	Iron	5.00	4.77	95.5	ug/mL	EPA 6010D
	Lead	0.500	0.503	101	ug/mL	EPA 6010D
	Magnesium	25.0	24.0	95.9	ug/mL	EPA 6010D
	Manganese	2.50	2.57	103	ug/mL	EPA 6010D
	Nickel	2.50	2.59	103	ug/mL	EPA 6010D
	Potassium	5.00	4.96	99.2	ug/mL	EPA 6010D
	Selenium	0.500	0.510	102	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Sodium	25.0	25.3	101	ug/mL	EPA 6010D
	Thallium	0.500	0.515	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101	ug/mL	EPA 6010D
	Zinc	2.50	2.54	102	ug/mL	EPA 6010D
S3K1602-CCV4	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.5 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.502	100	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.259	103	ug/mL	EPA 6010D
	Cadmium	0.250	0.252	101	ug/mL	EPA 6010D
	Calcium	25.0	25.2	101	ug/mL	EPA 6010D
	Chromium	1.00	1.02	102	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1602

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1602-CCV4	Cobalt	2.50	2.58	103	ug/mL	EPA 6010D
	Copper	1.25	1.27	102	ug/mL	EPA 6010D
	Iron	5.00	5.18	104	ug/mL	EPA 6010D
	Lead	0.500	0.506	101	ug/mL	EPA 6010D
	Magnesium	25.0	25.8	103	ug/mL	EPA 6010D
	Manganese	2.50	2.58	103	ug/mL	EPA 6010D
	Nickel	2.50	2.60	104	ug/mL	EPA 6010D
	Potassium	5.00	5.45	109	ug/mL	EPA 6010D
	Selenium	0.500	0.520	104	ug/mL	EPA 6010D
	Silver	1.25	1.28	102	ug/mL	EPA 6010D
	Sodium	25.0	26.0	104	ug/mL	EPA 6010D
	Thallium	0.500	0.518	104	ug/mL	EPA 6010D
	Vanadium	2.50	2.53	101	ug/mL	EPA 6010D
	Zinc	2.50	2.55	102	ug/mL	EPA 6010D
S3K1602-CCV5	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D
	Antimony	0.250	0.213	85.3 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.501	100	ug/mL	EPA 6010D
	Barium	10.0	10.4	104	ug/mL	EPA 6010D
	Beryllium	0.250	0.259	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.254	102	ug/mL	EPA 6010D
	Calcium	25.0	25.1	101	ug/mL	EPA 6010D
	Chromium	1.00	1.03	103	ug/mL	EPA 6010D
	Cobalt	2.50	2.60	104	ug/mL	EPA 6010D
	Copper	1.25	1.28	102	ug/mL	EPA 6010D
	Iron	5.00	5.17	103	ug/mL	EPA 6010D
	Lead	0.500	0.507	101	ug/mL	EPA 6010D
	Magnesium	25.0	25.6	102	ug/mL	EPA 6010D
	Manganese	2.50	2.59	103	ug/mL	EPA 6010D
	Nickel	2.50	2.62	105	ug/mL	EPA 6010D
	Potassium	5.00	5.37	107	ug/mL	EPA 6010D
	Selenium	0.500	0.520	104	ug/mL	EPA 6010D
	Silver	1.25	1.28	103	ug/mL	EPA 6010D
	Sodium	25.0	26.0	104	ug/mL	EPA 6010D
	Thallium	0.500	0.521	104	ug/mL	EPA 6010D
	Vanadium	2.50	2.54	101	ug/mL	EPA 6010D
	Zinc	2.50	2.57	103	ug/mL	EPA 6010D
S3K1602-CCV6	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1604-ICV1	Aluminum	10.0	9.85	98.5	ug/mL	EPA 6010D
	Antimony	0.250	0.253	101	ug/mL	EPA 6010D
	Arsenic	0.250	0.253	101	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.252	101	ug/mL	EPA 6010D
	Cadmium	0.125	0.130	104	ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.5	ug/mL	EPA 6010D
	Chromium	1.00	0.985	98.5	ug/mL	EPA 6010D
	Cobalt	2.50	2.51	100	ug/mL	EPA 6010D
	Copper	1.25	1.24	99.4	ug/mL	EPA 6010D
	Iron	5.00	5.09	102	ug/mL	EPA 6010D
	Lead	0.250	0.263	105	ug/mL	EPA 6010D
	Magnesium	25.0	25.4	101	ug/mL	EPA 6010D
	Manganese	2.50	2.53	101	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Potassium	25.0	24.9	99.7	ug/mL	EPA 6010D
	Selenium	0.250	0.271	109	ug/mL	EPA 6010D
	Silver	1.25	1.23	98.6	ug/mL	EPA 6010D
	Sodium	25.0	25.2	101	ug/mL	EPA 6010D
	Thallium	0.250	0.283	113 *	ug/mL	EPA 6010D
	Vanadium	2.50	2.50	100	ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.7	ug/mL	EPA 6010D
S3K1604-CCV1	Aluminum	10.0	10.2	102	ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.5 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.496	99.2	ug/mL	EPA 6010D
	Barium	10.0	10.4	104	ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100	ug/mL	EPA 6010D
	Calcium	25.0	25.5	102	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102	ug/mL	EPA 6010D
	Copper	1.25	1.27	101	ug/mL	EPA 6010D
	Iron	5.00	5.20	104	ug/mL	EPA 6010D
	Lead	0.500	0.505	101	ug/mL	EPA 6010D
	Magnesium	25.0	25.9	104	ug/mL	EPA 6010D
	Manganese	2.50	2.58	103	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1604-CCV1	Potassium	5.00	5.22	104	ug/mL	EPA 6010D
	Selenium	0.500	0.518	104	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Sodium	25.0	25.5	102	ug/mL	EPA 6010D
	Thallium	0.500	0.513	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.54	102	ug/mL	EPA 6010D
	Zinc	2.50	2.52	101	ug/mL	EPA 6010D
S3K1604-CCV8	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D
	Antimony	0.250	0.206	82.6 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.499	99.7	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.258	103	ug/mL	EPA 6010D
	Cadmium	0.250	0.252	101	ug/mL	EPA 6010D
	Calcium	25.0	25.0	99.9	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102	ug/mL	EPA 6010D
	Copper	1.25	1.28	103	ug/mL	EPA 6010D
	Iron	5.00	5.14	103	ug/mL	EPA 6010D
	Lead	0.500	0.502	100	ug/mL	EPA 6010D
	Magnesium	25.0	25.4	102	ug/mL	EPA 6010D
	Manganese	2.50	2.57	103	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D
	Potassium	5.00	5.39	108	ug/mL	EPA 6010D
	Selenium	0.500	0.516	103	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Sodium	25.0	25.8	103	ug/mL	EPA 6010D
	Thallium	0.500	0.512	102	ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101	ug/mL	EPA 6010D
	Zinc	2.50	2.51	101	ug/mL	EPA 6010D
S3K1604-CCV9	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D
	Antimony	0.250	0.207	82.7 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.501	100	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.258	103	ug/mL	EPA 6010D
	Cadmium	0.250	0.253	101	ug/mL	EPA 6010D
	Calcium	25.0	25.0	100	ug/mL	EPA 6010D
	Chromium	1.00	1.02	102	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1607

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K1607-ICV1	Aluminum	10.0	9.85	98.5		ug/mL	EPA 6010D
	Antimony	0.250	0.253	101		ug/mL	EPA 6010D
	Arsenic	0.250	0.253	101		ug/mL	EPA 6010D
	Barium	10.0	10.2	102		ug/mL	EPA 6010D
	Beryllium	0.250	0.252	101		ug/mL	EPA 6010D
	Cadmium	0.125	0.130	104		ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.5		ug/mL	EPA 6010D
	Chromium	1.00	0.985	98.5		ug/mL	EPA 6010D
	Cobalt	2.50	2.51	100		ug/mL	EPA 6010D
	Copper	1.25	1.24	99.4		ug/mL	EPA 6010D
	Iron	5.00	5.09	102		ug/mL	EPA 6010D
	Lead	0.250	0.263	105		ug/mL	EPA 6010D
	Magnesium	25.0	25.4	101		ug/mL	EPA 6010D
	Manganese	2.50	2.53	101		ug/mL	EPA 6010D
	Nickel	2.50	2.52	101		ug/mL	EPA 6010D
	Potassium	25.0	24.9	99.7		ug/mL	EPA 6010D
	Selenium	0.250	0.271	109		ug/mL	EPA 6010D
	Silver	1.25	1.23	98.6		ug/mL	EPA 6010D
	Sodium	25.0	25.2	101		ug/mL	EPA 6010D
	Thallium	0.250	0.283	113	*	ug/mL	EPA 6010D
	Vanadium	2.50	2.50	100		ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.7		ug/mL	EPA 6010D
S3K1607-CCV1	Aluminum	10.0	10.2	102		ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.5	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.496	99.2		ug/mL	EPA 6010D
	Barium	10.0	10.4	104		ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104		ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100		ug/mL	EPA 6010D
	Calcium	25.0	25.5	102		ug/mL	EPA 6010D
	Chromium	1.00	1.01	101		ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102		ug/mL	EPA 6010D
	Copper	1.25	1.27	101		ug/mL	EPA 6010D
	Iron	5.00	5.20	104		ug/mL	EPA 6010D
	Lead	0.500	0.505	101		ug/mL	EPA 6010D
	Magnesium	25.0	25.9	104		ug/mL	EPA 6010D
	Manganese	2.50	2.58	103		ug/mL	EPA 6010D
	Nickel	2.50	2.58	103		ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1607

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1607-CCV1	Potassium	5.00	5.22	104	ug/mL	EPA 6010D
	Selenium	0.500	0.518	104	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Sodium	25.0	25.5	102	ug/mL	EPA 6010D
	Thallium	0.500	0.513	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.54	102	ug/mL	EPA 6010D
	Zinc	2.50	2.52	101	ug/mL	EPA 6010D
S3K1607-CCVE	Aluminum	10.0	9.98	99.8	ug/mL	EPA 6010D
	Antimony	0.250	0.205	81.8 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.491	98.2	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.256	102	ug/mL	EPA 6010D
	Cadmium	0.250	0.250	100	ug/mL	EPA 6010D
	Calcium	25.0	24.6	98.6	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.55	102	ug/mL	EPA 6010D
	Copper	1.25	1.26	101	ug/mL	EPA 6010D
	Iron	5.00	5.08	102	ug/mL	EPA 6010D
	Lead	0.500	0.495	99.1	ug/mL	EPA 6010D
	Magnesium	25.0	25.2	101	ug/mL	EPA 6010D
	Manganese	2.50	2.54	101	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D
	Potassium	5.00	5.39	108	ug/mL	EPA 6010D
	Selenium	0.500	0.504	101	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Sodium	25.0	25.8	103	ug/mL	EPA 6010D
	Thallium	0.500	0.509	102	ug/mL	EPA 6010D
	Vanadium	2.50	2.51	100	ug/mL	EPA 6010D
	Zinc	2.50	2.49	99.7	ug/mL	EPA 6010D
S3K1607-CCVF	Aluminum	10.0	9.98	99.8	ug/mL	EPA 6010D
	Antimony	0.250	0.202	80.9 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.488	97.6	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.255	102	ug/mL	EPA 6010D
	Cadmium	0.250	0.249	99.5	ug/mL	EPA 6010D
	Calcium	25.0	24.6	98.4	ug/mL	EPA 6010D
	Chromium	1.00	1.00	100	ug/mL	EPA 6010D

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1602

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1602-IFA1	Aluminum	500	528.64	106	ug/mL
	Antimony		0.00		ug/mL
	Arsenic		0.01		ug/mL
	Barium		0.10		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Calcium	500	488.71	97.7	ug/mL
	Chromium		0.00		ug/mL
	Cobalt		0.00		ug/mL
	Copper		0.00		ug/mL
	Iron	200	181.99	91.0	ug/mL
	Lead		0.00		ug/mL
	Magnesium	500	509.71	102	ug/mL
	Manganese		0.00		ug/mL
	Nickel		0.00		ug/mL
	Potassium		-0.11		ug/mL
	Selenium		0.03		ug/mL
	Silver		0.00		ug/mL
	Sodium		-1.35		ug/mL
	Thallium		-0.01		ug/mL
	Vanadium		0.00		ug/mL
	Zinc		0.00		ug/mL
S3K1602-IFB1	Aluminum	500	530.42	106	ug/mL
	Antimony	0.500	0.44	88.6	ug/mL
	Arsenic	0.500	0.52	104	ug/mL
	Barium	0.500	0.61	122 *	ug/mL
	Beryllium	0.500	0.46	91.9	ug/mL
	Cadmium	1.00	0.93	93.2	ug/mL
	Calcium	500	491.63	98.3	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1602

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1602-IFB1	Chromium	0.500	0.49	97.4	ug/mL
	Cobalt	0.500	0.46	92.7	ug/mL
	Copper	0.500	0.55	110	ug/mL
	Iron	200	182.27	91.1	ug/mL
	Lead	1.00	0.92	92.2	ug/mL
	Magnesium	500	510.15	102	ug/mL
	Manganese	0.500	0.50	100	ug/mL
	Nickel	1.00	0.90	90.4	ug/mL
	Potassium		-0.10		ug/mL
	Selenium	0.500	0.54	108	ug/mL
	Silver	1.00	1.11	111	ug/mL
	Sodium		3.98		ug/mL
	Thallium	0.500	0.44	87.1	ug/mL
	Vanadium	0.500	0.50	99.4	ug/mL
	Zinc	1.00	1.24	124 *	ug/mL

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1604-IFA1	Aluminum	500	528.64	106	ug/mL
	Antimony		0.00		ug/mL
	Arsenic		0.01		ug/mL
	Barium		0.10		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Calcium	500	488.71	97.7	ug/mL
	Chromium		0.00		ug/mL
	Cobalt		0.00		ug/mL
	Copper		0.00		ug/mL
	Iron	200	181.99	91.0	ug/mL
	Lead		0.00		ug/mL
	Magnesium	500	509.71	102	ug/mL
	Manganese		0.00		ug/mL
	Nickel		0.00		ug/mL
	Potassium		-0.11		ug/mL
	Selenium		0.03		ug/mL
	Silver		0.00		ug/mL
	Sodium		-1.35		ug/mL
	Thallium		-0.01		ug/mL
	Vanadium		0.00		ug/mL
	Zinc		0.00		ug/mL
S3K1604-IFB1	Aluminum	500	530.42	106	ug/mL
	Antimony	0.500	0.44	88.6	ug/mL
	Arsenic	0.500	0.52	104	ug/mL
	Barium	0.500	0.61	122 *	ug/mL
	Beryllium	0.500	0.46	91.9	ug/mL
	Cadmium	1.00	0.93	93.2	ug/mL
	Calcium	500	491.63	98.3	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1604-IFB1	Chromium	0.500	0.49	97.4	ug/mL
	Cobalt	0.500	0.46	92.7	ug/mL
	Copper	0.500	0.55	110	ug/mL
	Iron	200	182.27	91.1	ug/mL
	Lead	1.00	0.92	92.2	ug/mL
	Magnesium	500	510.15	102	ug/mL
	Manganese	0.500	0.50	100	ug/mL
	Nickel	1.00	0.90	90.4	ug/mL
	Potassium		-0.10		ug/mL
	Selenium	0.500	0.54	108	ug/mL
	Silver	1.00	1.11	111	ug/mL
	Sodium		3.98		ug/mL
	Thallium	0.500	0.44	87.1	ug/mL
	Vanadium	0.500	0.50	99.4	ug/mL
	Zinc	1.00	1.24	124 *	ug/mL

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1607

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1607-IFA1	Aluminum	500	528.64	106	ug/mL
	Antimony		0.00		ug/mL
	Arsenic		0.01		ug/mL
	Barium		0.10		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Calcium	500	488.71	97.7	ug/mL
	Chromium		0.00		ug/mL
	Cobalt		0.00		ug/mL
	Copper		0.00		ug/mL
	Iron	200	181.99	91.0	ug/mL
	Lead		0.00		ug/mL
	Magnesium	500	509.71	102	ug/mL
	Manganese		0.00		ug/mL
	Nickel		0.00		ug/mL
	Potassium		-0.11		ug/mL
	Selenium		0.03		ug/mL
	Silver		0.00		ug/mL
	Sodium		-1.35		ug/mL
	Thallium		-0.01		ug/mL
	Vanadium		0.00		ug/mL
	Zinc		0.00		ug/mL
S3K1607-IFB1	Aluminum	500	530.42	106	ug/mL
	Antimony	0.500	0.44	88.6	ug/mL
	Arsenic	0.500	0.52	104	ug/mL
	Barium	0.500	0.61	122 *	ug/mL
	Beryllium	0.500	0.46	91.9	ug/mL
	Cadmium	1.00	0.93	93.2	ug/mL
	Calcium	500	491.63	98.3	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1607

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1607-IFB1	Chromium	0.500	0.49	97.4	ug/mL
	Cobalt	0.500	0.46	92.7	ug/mL
	Copper	0.500	0.55	110	ug/mL
	Iron	200	182.27	91.1	ug/mL
	Lead	1.00	0.92	92.2	ug/mL
	Magnesium	500	510.15	102	ug/mL
	Manganese	0.500	0.50	100	ug/mL
	Nickel	1.00	0.90	90.4	ug/mL
	Potassium		-0.10		ug/mL
	Selenium	0.500	0.54	108	ug/mL
	Silver	1.00	1.11	111	ug/mL
	Sodium		3.98		ug/mL
	Thallium	0.500	0.44	87.1	ug/mL
	Vanadium	0.500	0.50	99.4	ug/mL
	Zinc	1.00	1.24	124 *	ug/mL

* Values outside of QC limits

DUPLICATES

23SP9 (0-2.5ft)

EPA 7473

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0580
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street
Matrix: Soil
Laboratory ID: BK30939-DUP1
Batch: BK30939
Lab Source ID: 23K0580-01
Preparation: EPA 7473 soil
Initial/Final: 0.2 g / 0.2 g
Source Sample Name: 23SP9 (0-2.5ft)
% Solids: 90.53

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/kg dry)	C	DUPLICATE CONCENTRATION (mg/kg dry)	C	RPD %	Q	METHOD
Mercury	35	0.27714		0.159		54.3	*	EPA 7473

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 7196A

23SP8 (25-27.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0580
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street
Matrix:	Soil		
Batch:	BK30805	Laboratory ID:	BK30805-MS1
Preparation:	EPA SW846-3060	Initial/Final:	2.5 g / 100 mL

Source Sample Name: 23SP8 (25-27.5ft)

COMPOUND	SPIKE ADDED (mg/kg dry)	SAMPLE CONCENTRATION (mg/kg dry)	MS CONCENTRATION (mg/kg dry)	MS % REC. #		QC LIMITS REC.
Chromium, Hexavalent	25.0	ND	18.0	72.0	*	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: 23K0665
8 Soil Samples, 1 Trip Blank, and 1 Field Blank

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K0665 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K0665, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/1/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 08, 2023
SAMPLE TYPE:	8 soil samples, 1 trip blank and 1 field blank
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K0665

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 8 soil samples, 1 trip blank, and 1 field blank collected on November 08, 2023. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), 1,4-Dioxane, PFASs, Pesticides, PCBs, Metals, Hexavalnet Chromium (Cr+6), Total Cyanide (TCN), and TCLP Metals.

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K0665. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Tables 6-1 through 6-9. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K0665, ten samples were analyzed and results were reported for 2060 analytes. Twenty-five results were rejected. Even though some results were flagged with a "J" as estimated, all other results (98.8 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	1,4-Dioxane	J detects R non-detects	ICAL RF < 0.005	Since all results are non-detect, the results are rejected
23SP3 (12-14ft) 23SP4 (12-14ft) 23SP4 (14-16ft) 23SP4 (27.5-30ft)	All analytes	J detects UJ non-detects	Surr rec for 1,2-DCEd4 < QC limits	Data are estimated
23SP3 (12-14ft) 23SP4 (12-14ft)	Cyclohexane	J detects	Int Std area for Fluorobenzene > QC limits	Data are estimated
Trip Blank 11-08-23	2-Butanone 2-Hexanone Bromoform	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated
Trip Blank 11-08-23	Acetone Acrolein Bromomethane Carbodisulfide Dichlorodifluormethane Tetrachloroethene Trichlorofluoromethane	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated
All soils	DBCP 2-Butanone 2-Hexanone Bromoform Bromomethane	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated

23SP3 (0-2.5ft) 23SP3 (8-12ft) 23SP3 (12-14ft) 23SP4 (0-5ft) 23SP4 (27.5-30ft)	4-Methyl-2-pentanone Acetone Chloroethane Chloromethane cis-1,3-Dihloropropene TBA Tetrachloroethene trans-1,3-Dichloropropene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated
23SP3 (25-30ft) 23SP4 (12-14ft) 23SP4 (14-16ft)	Freon 113 1,1-Dichoroethene 4-Methyl-2-pentanone Acetone Chloroethane Chloromethane Dichlorodifluoromethane Tetrachloroethene trans-1,3-Dichloropropene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-2 SVOCs - Scan

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP3 (0-2.5ft)	All AE analytes	J detects UJ non-detects	Surr rec for 2FP, P-d6, and TBP < QC limits	Data are estimated
All soil samples	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	J detects R non-detects	CCV % D > 90 %	Since all results are non-detect, the results are rejected

All soil samples	2,4-Dinitrotoluene 2,6-Dinitrotoluene Benzoic acid Bis(2-chloroisopropyl)ether Di-n-octyl phthalate Hexachlorocyclopentadiene NDMA	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-3 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP3 (8-12ft) 23SP3 (25-30ft)	PFBS	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
23SP3 (12-14ft) 23SP4 (0-5ft) 23SP4 (12-14ft) 23SP4 (14-16FT 23SP4 (27.5-30ft) PFAS Field Blank	PFBS PFPeA	J detects UJ non-detects	Sur rec < QC limits	Data are estimated

23SP3 (0-2.5ft)	PFBS 4:2FTS	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
All samples	8:2 FTS 4:2 FTS 6:2 FTS	J detects UJ non-detects	ICAL Qual Cod < 0.995	Data are estimated
23SP3 (0-2.5ft) 23SP3 (8-12ft) 23SP3 (12-14ft) 23SP3 (25-30ft) 23SP4 (0-5ft) 23SP4 (12-14ft) 23SP4 (14-16ft) 23SP4 (27.5-30ft)	11CL-PF3OUdS FPrPA 9CL-PF3ONS ADONA N-EtFOSA PFEESA PFNS NFDHA PFMPA PFMBA PFDoS	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated
PFAS Field Blank	11CL-PF3OUdS 9CL-PF3ONS N-EtFOSA PFEESA PFNS NFDHA PFMPA PFMBA PFDoS	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated

Table 6-5 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-6 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 ICP Metals/TCLP Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All soil samples	Ag	J- detects UJ non-detects	SRM rec < QC limit	Data are biased low
23SP3 (8-12ft) 23SP3 (12-14ft) 23SP3 (25-30ft) 23SP4 (0-5ft) 23SP4 (12-14ft) 23SP4 (14-16ft) 23SP4 (27.5-30ft)	Tl	J- detects UJ non-detects	SRM rec < QC limit	Data are biased low
All soil samples	Sb	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low

All soil samples	Ba, Na, and Zn	J+ detects	Interference check and/or SRM rec > QC limit	Data are biased high
23SP4 (14-16ft)	TCLP Pb	J+ detects	CCV % D > 110 %	Data are biased high

Table 6-8 Mercury/TCLP Mercury

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-9 Cr+6 and TCN

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/27/2023
Client Project ID: 220293 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0665

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Work Order Narrative

York Analytical Work Order No.: 23K0665

Client : Touchstone Environmental Geology, PC

Client Project ID : 220293 100 East 149th St. Bronx, NY

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/09/2023 6:15 PM

10 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{2.3}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23SP3 (0-2.5 ft)	23K0665-01	Soil	11/08/2023 11:00 AM	11/09/2023 6:15 PM
23SP3 (8-12 ft)	23K0665-02	Soil	11/08/2023 11:15 AM	11/09/2023 6:15 PM
23SP3 (12-14 ft)	23K0665-03	Soil	11/08/2023 11:25 AM	11/09/2023 6:15 PM
23SP3 (25-30 ft)	23K0665-04	Soil	11/08/2023 11:40 AM	11/09/2023 6:15 PM
23SP4 (0-5 ft)	23K0665-05	Soil	11/08/2023 1:30 PM	11/09/2023 6:15 PM
23SP4 (12-14 ft)	23K0665-06	Soil	11/08/2023 1:45 PM	11/09/2023 6:15 PM
23SP4 (14-16 ft)	23K0665-07	Soil	11/08/2023 1:45 PM	11/09/2023 6:15 PM
23SP4 (27.5-30 ft)	23K0665-08	Soil	11/08/2023 3:00 PM	11/09/2023 6:15 PM
Field Blank	23K0665-09	Water	11/08/2023 3:00 PM	11/09/2023 6:15 PM
Trip Blank	23K0665-10	Water	11/08/2023 3:00 PM	11/09/2023 6:15 PM

WorkOrder Comments

For sample 01, client only provided one stirbar vial. Limited volume for sample 01 volatile analyses.

2.0 Methodology

Analysis Class	Preparation Method	Analysis Methodology
VOA	EPA 5030B	EPA 8260D
VOA	EPA 5035A	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D SIM
PFAS	EPA 1633 Prep	EPA 1633 Draft 3
PEST	EPA 3550C	EPA 8081B
ARO	EPA 3550C	EPA 8082A
METALS	EPA 3050B	EPA 6010D
METALS	EPA 3015A/1311	EPA 6010D/1311
HG	EPA SW846-7470A	EPA 7470/1311
HG	EPA 7473 soil	EPA 7473
WET	Analysis Preparation	Calculation
WET	EPA SW 846-1311 TCLP ext. for	EPA 1311
WET	EPA SW846-3060	EPA 7196A
WET	Analysis Preparation Soil	EPA 9014/9010C
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0665

120 Research Drive Stratford, CT 06615 ~~132-02 89th Ave Queens, NY 11418~~ ~~56 Church Hill Rd. #2 Newtown, CT 06470~~ clientservices@yorklab.com www.yorklab.com 800-306-YORK Page _____ of _____

YOUR Information	Report To:	Invoice To:
Company: Tauchstone	Company: Tauchstone	Company: Tauchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 East 149th St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name)

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil | Other

Samples From: New York X; New Jersey; Connecticut; Pennsylvania; Other:

Report / EDD Type (circle selections): Summary Report; CT RCP; EQuIS (Standard); QA Report; CT RCP DQA/DUE; NYSDEC EQuIS; CMDP; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; NJDEP SRP HazSite; NY ASP B Package; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP3 (~~0-2 5 ft~~) ~~(0-2 5 ft)~~ (0-2.5ft)	S	11/8/23 1100	TCL +10 VOCs and TICs EPA 8260C	2) 8oz Jars,	
23SP3 (8-12ft)	S	1115	TCL +20 SVOCs and TICs, Pesticides	4 vials,	
23SP3 (12-14ft)	S	1125	and PCBs, 21 PFAS compounds	1 Pfas	
23SP3 (25-30ft)	S	1140	Method 1633, 1,4 dioxane EPA		
23SP4 (~~0-2 5 ft~~) (0-5 ft)		1130	8270 SIM, Full TAL metals		
23SP4 (12-14ft)		145	list + Cyanide and		
23SP4 (14-16ft)		145	hexavalent chromium		
23SP4 (27.5-30ft)	↓				
Field Blank	O			2 vials	
Trip Blank	O	↓		2 vials	

Comments: temperatures frozen at Pg KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply) HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction: Field Filtered; Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
[signature]	11/9/23 220 pm	K Bahyork	11/9/23 229pm	K Bahyork	11/9/23 18:15
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
[signature]					
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	11/9/23 18:15 / 2.3 Degrees C

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
CLASS: VOA
METHOD: EPA 8260D

DATA PACKAGE COVER PAGE

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (12-14 ft)	23K0665-03RE1
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (12-14 ft)	23K0665-06RE1
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08
Trip Blank	23K0665-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/12/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID: V5435357.D

Sampled: 11/08/23 11:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 12:27

Solids: 91.55 Preparation: EPA 5035A Initial/Final: 4.75 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0057	U	
71-55-6	1,1,1-Trichloroethane	1	0.0057	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0057	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0057	U	
79-00-5	1,1,2-Trichloroethane	1	0.0057	U	
75-34-3	1,1-Dichloroethane	1	0.0057	U	
75-35-4	1,1-Dichloroethylene	1	0.0057	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0057	U	
96-18-4	1,2,3-Trichloropropane	1	0.0057	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0057	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0057	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0057	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0057	U	
95-50-1	1,2-Dichlorobenzene	1	0.0057	U	
107-06-2	1,2-Dichloroethane	1	0.0057	U	
78-87-5	1,2-Dichloropropane	1	0.0057	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0057	U	
541-73-1	1,3-Dichlorobenzene	1	0.0057	U	
106-46-7	1,4-Dichlorobenzene	1	0.0057	U	
123-91-1	1,4-Dioxane	1	~~0.11~~	U	R
78-93-3	2-Butanone	1	0.0057	U	UJ
591-78-6	2-Hexanone	1	0.0057	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0057	U	UJ
67-64-1	Acetone	1	0.014		J
107-02-8	Acrolein	1	0.011	U	
107-13-1	Acrylonitrile	1	0.0057	U	
71-43-2	Benzene	1	0.0057	U	
74-97-5	Bromochloromethane	1	0.0057	U	
75-27-4	Bromodichloromethane	1	0.0057	U	
75-25-2	Bromoform	1	0.0057	U	UJ
74-83-9	Bromomethane	1	0.0057	U	UJ
75-15-0	Carbon disulfide	1	0.0057	U	
56-23-5	Carbon tetrachloride	1	0.0057	U	
108-90-7	Chlorobenzene	1	0.0057	U	
75-00-3	Chloroethane	1	0.0057	U	UJ
67-66-3	Chloroform	1	0.0057	U	UJ
74-87-3	Chloromethane	1	0.0057	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0057	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0057	U	UJ
110-82-7	Cyclohexane	1	0.0057	U	

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID: V5435357.D

Sampled: 11/08/23 11:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 12:27

Solids: 91.55 Preparation: EPA 5035A Initial/Final: 4.75 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0057	U	
74-95-3	Dibromomethane	1	0.0057	U	
75-71-8	Dichlorodifluoromethane	1	0.0057	U	
100-41-4	Ethyl Benzene	1	0.0057	U	
87-68-3	Hexachlorobutadiene	1	0.0057	U	
98-82-8	Isopropylbenzene	1	0.0057	U	
79-20-9	Methyl acetate	1	0.0057	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0057	U	
108-87-2	Methylcyclohexane	1	0.0057	U	
75-09-2	Methylene chloride	1	0.011	U	
104-51-8	n-Butylbenzene	1	0.0057	U	
103-65-1	n-Propylbenzene	1	0.0057	U	
95-47-6	o-Xylene	1	0.0057	U	
179601-23-1	p- & m- Xylenes	1	0.011	U	
99-87-6	p-Isopropyltoluene	1	0.0057	U	
135-98-8	sec-Butylbenzene	1	0.0057	U	
100-42-5	Styrene	1	0.0057	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0057	U	UJ
98-06-6	tert-Butylbenzene	1	0.0057	U	
127-18-4	Tetrachloroethylene	1	0.0057	U	UJ
108-88-3	Toluene	1	0.0057	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0057	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0057	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0057	U	
79-01-6	Trichloroethylene	1	0.0057	U	
75-69-4	Trichlorofluoromethane	1	0.0057	U	
75-01-4	Vinyl Chloride	1	0.0057	U	
1330-20-7	Xylenes, Total	1	0.017	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	47.6	95.2	77 - 125	
SURR: Toluene-d8	50.0	47.0	94.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	55.4	111	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	227731	5.566	227820	5.562	
ISTD: Chlorobenzene-d5	936460	8.588	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	355061	11.553	453671	11.553	

* Values outside of QC limits

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID: V5435358.D

Sampled: 11/08/23 11:15 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 12:54

Solids: 92.17 Preparation: EPA 5035A Initial/Final: 5.92 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U	
71-55-6	1,1,1-Trichloroethane	1	0.0046	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U	
79-00-5	1,1,2-Trichloroethane	1	0.0046	U	
75-34-3	1,1-Dichloroethane	1	0.0046	U	
75-35-4	1,1-Dichloroethylene	1	0.0046	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U	
96-18-4	1,2,3-Trichloropropane	1	0.0046	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0046	U	
95-50-1	1,2-Dichlorobenzene	1	0.0046	U	
107-06-2	1,2-Dichloroethane	1	0.0046	U	
78-87-5	1,2-Dichloropropane	1	0.0046	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U	
541-73-1	1,3-Dichlorobenzene	1	0.0046	U	
106-46-7	1,4-Dichlorobenzene	1	0.0046	U	
123-91-1	1,4-Dioxane	1	~~0.092~~	U	R
78-93-3	2-Butanone	1	0.0046	U	UJ
591-78-6	2-Hexanone	1	0.0046	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0046	U	UJ
67-64-1	Acetone	1	0.0092	U	UJ
107-02-8	Acrolein	1	0.0092	U	
107-13-1	Acrylonitrile	1	0.0046	U	
71-43-2	Benzene	1	0.0046	U	
74-97-5	Bromochloromethane	1	0.0046	U	
75-27-4	Bromodichloromethane	1	0.0046	U	
75-25-2	Bromoform	1	0.0046	U	UJ
74-83-9	Bromomethane	1	0.0046	U	UJ
75-15-0	Carbon disulfide	1	0.0046	U	
56-23-5	Carbon tetrachloride	1	0.0046	U	
108-90-7	Chlorobenzene	1	0.0046	U	
75-00-3	Chloroethane	1	0.0046	U	UJ
67-66-3	Chloroform	1	0.0046	U	
74-87-3	Chloromethane	1	0.0046	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U	UJ
110-82-7	Cyclohexane	1	0.0046	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID: V5435358.D

Sampled: 11/08/23 11:15 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 12:54

Solids: 92.17 Preparation: EPA 5035A Initial/Final: 5.92 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0046	U	
74-95-3	Dibromomethane	1	0.0046	U	
75-71-8	Dichlorodifluoromethane	1	0.0046	U	
100-41-4	Ethyl Benzene	1	0.0046	U	
87-68-3	Hexachlorobutadiene	1	0.0046	U	
98-82-8	Isopropylbenzene	1	0.0046	U	
79-20-9	Methyl acetate	1	0.0046	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U	
108-87-2	Methylcyclohexane	1	0.0046	U	
75-09-2	Methylene chloride	1	0.0092	U	
104-51-8	n-Butylbenzene	1	0.0046	U	
103-65-1	n-Propylbenzene	1	0.0046	U	
95-47-6	o-Xylene	1	0.0046	U	
179601-23-1	p- & m- Xylenes	1	0.0092	U	
99-87-6	p-Isopropyltoluene	1	0.0046	U	
135-98-8	sec-Butylbenzene	1	0.0046	U	
100-42-5	Styrene	1	0.0046	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U	UJ
98-06-6	tert-Butylbenzene	1	0.0046	U	
127-18-4	Tetrachloroethylene	1	0.0046	U	UJ
108-88-3	Toluene	1	0.0046	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0046	U	
79-01-6	Trichloroethylene	1	0.0046	U	
75-69-4	Trichlorofluoromethane	1	0.0046	U	
75-01-4	Vinyl Chloride	1	0.0046	U	
1330-20-7	Xylenes, Total	1	0.014	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.7	97.4	77 - 125	
SURR: Toluene-d8	50.0	45.8	91.5	85 - 120	
SURR: p-Bromofluorobenzene	50.0	51.4	103	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	236781	5.566	227820	5.562	
ISTD: Chlorobenzene-d5	1013084	8.588	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	427157	11.553	453671	11.553	

* Values outside of QC limits

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID: V5435359.D

Sampled: 11/08/23 11:25 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 13:22

Solids: 84.23 Preparation: EPA 5035A Initial/Final: 4.43 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0067	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0067	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0067	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0067	U	
79-00-5	1,1,2-Trichloroethane	1	0.0067	U	
75-34-3	1,1-Dichloroethane	1	0.0067	U	
75-35-4	1,1-Dichloroethylene	1	0.0067	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0067	U	
96-18-4	1,2,3-Trichloropropane	1	0.0067	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0067	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0096		J
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0067	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0067	U	
95-50-1	1,2-Dichlorobenzene	1	0.0067	U	
107-06-2	1,2-Dichloroethane	1	0.0067	U	
78-87-5	1,2-Dichloropropane	1	0.0067	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0070		J
541-73-1	1,3-Dichlorobenzene	1	0.0067	U	UJ
106-46-7	1,4-Dichlorobenzene	1	0.0067	U	UJ
123-91-1	1,4-Dioxane	1	~~0.13~~	U	R
78-93-3	2-Butanone	1	0.0067	U	UJ
591-78-6	2-Hexanone	1	0.0067	U	
108-10-1	4-Methyl-2-pentanone	1	0.0067	U	
67-64-1	Acetone	1	0.013	U	
107-02-8	Acrolein	1	0.013	U	
107-13-1	Acrylonitrile	1	0.0067	U	
71-43-2	Benzene	1	0.0067	U	
74-97-5	Bromochloromethane	1	0.0067	U	
75-27-4	Bromodichloromethane	1	0.0067	U	
75-25-2	Bromoform	1	0.0067	U	
74-83-9	Bromomethane	1	0.0067	U	
75-15-0	Carbon disulfide	1	0.0067	U	
56-23-5	Carbon tetrachloride	1	0.0067	U	
108-90-7	Chlorobenzene	1	0.0067	U	
75-00-3	Chloroethane	1	0.0067	U	
67-66-3	Chloroform	1	0.0067	U	
74-87-3	Chloromethane	1	0.0067	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0067	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0067	U	
110-82-7	Cyclohexane	1	0.0067	U	

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID: V5435359.D

Sampled: 11/08/23 11:25 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 13:22

Solids: 84.23 Preparation: EPA 5035A Initial/Final: 4.43 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0067	U	UJ
74-95-3	Dibromomethane	1	0.0067	U	
75-71-8	Dichlorodifluoromethane	1	0.0067	U	
100-41-4	Ethyl Benzene	1	0.0067	U	
87-68-3	Hexachlorobutadiene	1	0.0067	U	
98-82-8	Isopropylbenzene	1	0.059		J
79-20-9	Methyl acetate	1	0.0067	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0067	U	UJ
75-09-2	Methylene chloride	1	0.013	U	UJ
104-51-8	n-Butylbenzene	1	0.092		J
103-65-1	n-Propylbenzene	1	0.17		
95-47-6	o-Xylene	1	0.0098		
179601-23-1	p- & m- Xylenes	1	0.031		
99-87-6	p-Isopropyltoluene	1	0.020		
135-98-8	sec-Butylbenzene	1	0.056		
100-42-5	Styrene	1	0.0067	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	1	0.0067	U	UJ
98-06-6	tert-Butylbenzene	1	0.0053	J	J
127-18-4	Tetrachloroethylene	1	0.0067	U	UJ
108-88-3	Toluene	1	0.0067	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0067	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0067	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0067	U	
79-01-6	Trichloroethylene	1	0.0067	U	
75-69-4	Trichlorofluoromethane	1	0.0067	U	
75-01-4	Vinyl Chloride	1	0.0067	U	
1330-20-7	Xylenes, Total	1	0.041		J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	10.4	20.9	77 - 125	*
SURR: Toluene-d8	50.0	61.3	123	85 - 120	*
SURR: p-Bromofluorobenzene	50.0	70.8	142	76 - 130	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	1232355	5.572	227820	5.562	*
ISTD: Chlorobenzene-d5	1058785	8.591	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	456654	11.556	453671	11.553	

* Values outside of QC limits

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-03RE1	File ID:	V5435415.D
Sampled:	11/08/23 11:25	Prepared:	11/15/23 09:00	Analyzed:	11/15/23 17:15
Solids:	84.23	Preparation:	EPA 5035A	Initial/Final:	5.06 g / 5 ml
Batch:	BK30956	Sequence:	S3K1528	Calibration:	SK30017
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
108-87-2	Methylcyclohexane	100	2.8	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	40.6	81.2	77 - 125	D
SURR: Toluene-d8	50.0	45.2	90.3	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	49.5	98.9	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	250800	5.562	228329	5.562	
ISTD: Chlorobenzene-d5	963895	8.585	1015163	8.585	
ISTD: 1,2-Dichlorobenzene-d4	439561	11.556	472142	11.553	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID: V5435416.D

Sampled: 11/08/23 11:40 Prepared: 11/15/23 09:00 Analyzed: 11/15/23 17:42

Solids: 81.98 Preparation: EPA 5035A Initial/Final: 6.62 g / 5 ml

Batch: BK30956 Sequence: S3K1528 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0046	U	
71-55-6	1,1,1-Trichloroethane	1	0.0046	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0046	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0046	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.0046	U	
75-34-3	1,1-Dichloroethane	1	0.0046	U	
75-35-4	1,1-Dichloroethylene	1	0.0046	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.0046	U	
96-18-4	1,2,3-Trichloropropane	1	0.0046	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0046	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0046	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0046	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0046	U	
95-50-1	1,2-Dichlorobenzene	1	0.0046	U	
107-06-2	1,2-Dichloroethane	1	0.0046	U	
78-87-5	1,2-Dichloropropane	1	0.0046	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0046	U	
541-73-1	1,3-Dichlorobenzene	1	0.0046	U	
106-46-7	1,4-Dichlorobenzene	1	0.0046	U	
123-91-1	1,4-Dioxane	1	0.092	U	R
78-93-3	2-Butanone	1	0.0046	U	UJ
591-78-6	2-Hexanone	1	0.0046	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0046	U	UJ
67-64-1	Acetone	1	0.0082	J	J
107-02-8	Acrolein	1	0.0092	U	
107-13-1	Acrylonitrile	1	0.0046	U	
71-43-2	Benzene	1	0.0046	U	
74-97-5	Bromochloromethane	1	0.0046	U	
75-27-4	Bromodichloromethane	1	0.0046	U	
75-25-2	Bromoform	1	0.0046	U	UJ
74-83-9	Bromomethane	1	0.0046	U	UJ
75-15-0	Carbon disulfide	1	0.0046	U	
56-23-5	Carbon tetrachloride	1	0.0046	U	
108-90-7	Chlorobenzene	1	0.0046	U	
75-00-3	Chloroethane	1	0.0046	U	UJ
67-66-3	Chloroform	1	0.0046	U	UJ
74-87-3	Chloromethane	1	0.0046	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0046	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0046	U	
110-82-7	Cyclohexane	1	0.0046	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID: V5435416.D

Sampled: 11/08/23 11:40 Prepared: 11/15/23 09:00 Analyzed: 11/15/23 17:42

Solids: 81.98 Preparation: EPA 5035A Initial/Final: 6.62 g / 5 ml

Batch: BK30956 Sequence: S3K1528 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0046	U	
74-95-3	Dibromomethane	1	0.0046	U	
75-71-8	Dichlorodifluoromethane	1	0.0046	U	UJ
100-41-4	Ethyl Benzene	1	0.0046	U	
87-68-3	Hexachlorobutadiene	1	0.0046	U	
98-82-8	Isopropylbenzene	1	0.0046	U	
79-20-9	Methyl acetate	1	0.0046	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0046	U	
108-87-2	Methylcyclohexane	1	0.0046	U	
75-09-2	Methylene chloride	1	0.0092	U	
104-51-8	n-Butylbenzene	1	0.0046	U	
103-65-1	n-Propylbenzene	1	0.0046	U	
95-47-6	o-Xylene	1	0.0046	U	
179601-23-1	p- & m- Xylenes	1	0.0092	U	
99-87-6	p-Isopropyltoluene	1	0.0046	U	
135-98-8	sec-Butylbenzene	1	0.0046	U	
100-42-5	Styrene	1	0.0046	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0046	U	
98-06-6	tert-Butylbenzene	1	0.0046	U	
127-18-4	Tetrachloroethylene	1	0.0046	U	UJ
108-88-3	Toluene	1	0.0046	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0046	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0046	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0046	U	
79-01-6	Trichloroethylene	1	0.0046	U	
75-69-4	Trichlorofluoromethane	1	0.0046	U	
75-01-4	Vinyl Chloride	1	0.0046	U	
1330-20-7	Xylenes, Total	1	0.014	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	46.2	92.4	77 - 125	
SURR: Toluene-d8	50.0	44.2	88.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	48.6	97.1	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	237176	5.563	228329	5.562	
ISTD: Chlorobenzene-d5	1094715	8.585	1015163	8.585	
ISTD: 1,2-Dichlorobenzene-d4	497998	11.553	472142	11.553	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID: V5435361.D

Sampled: 11/08/23 13:30 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 14:17

Solids: 88.63 Preparation: EPA 5035A Initial/Final: 5.45 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0052	U	
71-55-6	1,1,1-Trichloroethane	1	0.0052	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0052	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0052	U	
79-00-5	1,1,2-Trichloroethane	1	0.0052	U	
75-34-3	1,1-Dichloroethane	1	0.0052	U	
75-35-4	1,1-Dichloroethylene	1	0.0052	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0052	U	
96-18-4	1,2,3-Trichloropropane	1	0.0052	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0052	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.060		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0052	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0052	U	
95-50-1	1,2-Dichlorobenzene	1	0.0052	U	
107-06-2	1,2-Dichloroethane	1	0.0052	U	
78-87-5	1,2-Dichloropropane	1	0.0052	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.015		
541-73-1	1,3-Dichlorobenzene	1	0.0052	U	
106-46-7	1,4-Dichlorobenzene	1	0.0052	U	
123-91-1	1,4-Dioxane	1	~~0.10~~	U	R
78-93-3	2-Butanone	1	0.0052	U	UJ
591-78-6	2-Hexanone	1	0.0052	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0052	U	UJ
67-64-1	Acetone	1	0.0063	J	J
107-02-8	Acrolein	1	0.010	U	
107-13-1	Acrylonitrile	1	0.0052	U	
71-43-2	Benzene	1	0.0068		
74-97-5	Bromochloromethane	1	0.0052	U	
75-27-4	Bromodichloromethane	1	0.0052	U	
75-25-2	Bromoform	1	0.0052	U	UJ
74-83-9	Bromomethane	1	0.0052	U	UJ
75-15-0	Carbon disulfide	1	0.0052	U	
56-23-5	Carbon tetrachloride	1	0.0052	U	
108-90-7	Chlorobenzene	1	0.0052	U	
75-00-3	Chloroethane	1	0.0052	U	UJ
67-66-3	Chloroform	1	0.0052	U	
74-87-3	Chloromethane	1	0.0052	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0052	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0052	U	UJ
110-82-7	Cyclohexane	1	0.016		

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID: V5435361.D

Sampled: 11/08/23 13:30 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 14:17

Solids: 88.63 Preparation: EPA 5035A Initial/Final: 5.45 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0052	U	
74-95-3	Dibromomethane	1	0.0052	U	
75-71-8	Dichlorodifluoromethane	1	0.0052	U	
100-41-4	Ethyl Benzene	1	0.036		
87-68-3	Hexachlorobutadiene	1	0.0052	U	
98-82-8	Isopropylbenzene	1	0.0058		
79-20-9	Methyl acetate	1	0.0052	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0052	U	
108-87-2	Methylcyclohexane	1	0.030		
75-09-2	Methylene chloride	1	0.010	U	
104-51-8	n-Butylbenzene	1	0.0052	U	
103-65-1	n-Propylbenzene	1	0.017		
95-47-6	o-Xylene	1	0.0032	J	
179601-23-1	p- & m- Xylenes	1	0.060		
99-87-6	p-Isopropyltoluene	1	0.0052	U	
135-98-8	sec-Butylbenzene	1	0.0052	U	
100-42-5	Styrene	1	0.0052	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0052	U	UJ
98-06-6	tert-Butylbenzene	1	0.0052	U	
127-18-4	Tetrachloroethylene	1	0.0052	U	UJ
108-88-3	Toluene	1	0.0026	J	
156-60-5	trans-1,2-Dichloroethylene	1	0.0052	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0052	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0052	U	UJ
79-01-6	Trichloroethylene	1	0.0052	U	
75-69-4	Trichlorofluoromethane	1	0.0052	U	
75-01-4	Vinyl Chloride	1	0.0052	U	
1330-20-7	Xylenes, Total	1	0.063		

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	43.5	87.0	77 - 125	
SURR: Toluene-d8	50.0	45.8	91.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	50.9	102	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	280069	5.566	227820	5.562	
ISTD: Chlorobenzene-d5	1070979	8.588	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	456384	11.553	453671	11.553	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: V5435417.D

Sampled: 11/08/23 13:45 Prepared: 11/15/23 09:00 Analyzed: 11/15/23 18:09

Solids: 84.98 Preparation: EPA 5035A Initial/Final: 5.25 g / 5 ml

Batch: BK30956 Sequence: S3K1528 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.56	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.56	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.56	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.56	U	
79-00-5	1,1,2-Trichloroethane	100	0.56	U	
75-34-3	1,1-Dichloroethane	100	0.56	U	
75-35-4	1,1-Dichloroethylene	100	0.56	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.56	U	
96-18-4	1,2,3-Trichloropropane	100	0.56	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.56	U	
96-12-8	1,2-Dibromo-3-chloropropane	100	0.56	U	
106-93-4	1,2-Dibromoethane	100	0.56	U	
95-50-1	1,2-Dichlorobenzene	100	0.56	U	
107-06-2	1,2-Dichloroethane	100	0.56	U	
78-87-5	1,2-Dichloropropane	100	0.56	U	
108-67-8	1,3,5-Trimethylbenzene	100	22	D	J
541-73-1	1,3-Dichlorobenzene	100	0.56	U	UJ
106-46-7	1,4-Dichlorobenzene	100	0.56	U	UJ
123-91-1	1,4-Dioxane	100	11	U	R
78-93-3	2-Butanone	100	0.56	U	UJ
591-78-6	2-Hexanone	100	0.56	U	
108-10-1	4-Methyl-2-pentanone	100	0.56	U	
67-64-1	Acetone	100	1.1	U	
107-02-8	Acrolein	100	1.1	U	
107-13-1	Acrylonitrile	100	0.56	U	
71-43-2	Benzene	100	0.56	U	
74-97-5	Bromochloromethane	100	0.56	U	
75-27-4	Bromodichloromethane	100	0.56	U	
75-25-2	Bromoform	100	0.56	U	
74-83-9	Bromomethane	100	0.56	U	
75-15-0	Carbon disulfide	100	0.56	U	
56-23-5	Carbon tetrachloride	100	0.56	U	
108-90-7	Chlorobenzene	100	0.56	U	
75-00-3	Chloroethane	100	0.56	U	
67-66-3	Chloroform	100	0.56	U	
74-87-3	Chloromethane	100	0.56	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.56	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.56	U	
110-82-7	Cyclohexane	100	4.1	D	J
124-48-1	Dibromochloromethane	100	0.56	U	UJ

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: V5435417.D

Sampled: 11/08/23 13:45 Prepared: 11/15/23 09:00 Analyzed: 11/15/23 18:09

Solids: 84.98 Preparation: EPA 5035A Initial/Final: 5.25 g / 5 ml

Batch: BK30956 Sequence: S3K1528 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
74-95-3	Dibromomethane	100	0.56	U	UJ
75-71-8	Dichlorodifluoromethane	100	0.56	U	UJ
100-41-4	Ethyl Benzene	100	25	D	J
87-68-3	Hexachlorobutadiene	100	0.56	U	UJ
98-82-8	Isopropylbenzene	100	18	D	J
79-20-9	Methyl acetate	100	0.56	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.56	U	UJ
75-09-2	Methylene chloride	100	1.1	U	UJ
104-51-8	n-Butylbenzene	100	11	D	J
95-47-6	o-Xylene	100	2.2	D	
179601-23-1	p- & m- Xylenes	100	36	D	
99-87-6	p-Isopropyltoluene	100	4.0	D	
135-98-8	sec-Butylbenzene	100	4.2	D	
100-42-5	Styrene	100	0.56	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	0.56	U	
98-06-6	tert-Butylbenzene	100	0.56	U	
127-18-4	Tetrachloroethylene	100	0.56	U	
108-88-3	Toluene	100	0.56	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.56	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.56	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.56	U	
79-01-6	Trichloroethylene	100	0.56	U	
75-69-4	Trichlorofluoromethane	100	0.56	U	
75-01-4	Vinyl Chloride	100	0.56	U	
1330-20-7	Xylenes, Total	100	38	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	14.6	29.2	77 - 125	D
SURR: Toluene-d8	50.0	59.8	120	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	65.1	130	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	702442	5.566	228329	5.562	*
ISTD: Chlorobenzene-d5	953395	8.585	1015163	8.585	
ISTD: 1,2-Dichlorobenzene-d4	420382	11.553	472142	11.553	

* Values outside of QC limits

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-06RE1	File ID:	V5435435.D
Sampled:	11/08/23 13:45	Prepared:	11/16/23 09:00	Analyzed:	11/16/23 14:37
Solids:	84.98	Preparation:	EPA 5035A	Initial/Final:	5.25 g / 5 ml
Batch:	BK31036	Sequence:	S3K1718	Calibration:	SK30017
Instrument:	VOA No. 5				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
95-63-6	1,2,4-Trimethylbenzene	1000	64	D
108-87-2	Methylcyclohexane	1000	22	D
103-65-1	n-Propylbenzene	1000	11	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	46.2	92.5	77 - 125	D
SURR: Toluene-d8	50.0	44.2	88.4	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	48.2	96.4	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	234858	5.562	253645	5.562	
ISTD: Chlorobenzene-d5	1056862	8.585	1158913	8.585	
ISTD: 1,2-Dichlorobenzene-d4	490735	11.553	541321	11.553	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: V5435418.D

Sampled: 11/08/23 13:45 Prepared: 11/15/23 09:00 Analyzed: 11/15/23 18:37

Solids: 75.01 Preparation: EPA 5035A Initial/Final: 4.1 g / 5 ml

Batch: BK30956 Sequence: S3K1528 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.81	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.81	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.81	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.81	U	
79-00-5	1,1,2-Trichloroethane	100	0.81	U	
75-34-3	1,1-Dichloroethane	100	0.81	U	
75-35-4	1,1-Dichloroethylene	100	0.81	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.81	U	
96-18-4	1,2,3-Trichloropropane	100	0.81	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.81	U	
95-63-6	1,2,4-Trimethylbenzene	100	16	D	J
96-12-8	1,2-Dibromo-3-chloropropane	100	0.81	U	UJ
106-93-4	1,2-Dibromoethane	100	0.81	U	
95-50-1	1,2-Dichlorobenzene	100	0.81	U	
107-06-2	1,2-Dichloroethane	100	0.81	U	
78-87-5	1,2-Dichloropropane	100	0.81	U	
108-67-8	1,3,5-Trimethylbenzene	100	6.2	D	J
541-73-1	1,3-Dichlorobenzene	100	0.81	U	UJ
106-46-7	1,4-Dichlorobenzene	100	0.81	U	UJ
123-91-1	1,4-Dioxane	100	~~1.6~~	U	R
78-93-3	2-Butanone	100	0.81	U	UJ
591-78-6	2-Hexanone	100	0.81	U	
108-10-1	4-Methyl-2-pentanone	100	0.81	U	
67-64-1	Acetone	100	1.6	U	
107-02-8	Acrolein	100	1.6	U	
107-13-1	Acrylonitrile	100	0.81	U	
71-43-2	Benzene	100	1.1	D	J
74-97-5	Bromochloromethane	100	0.81	U	UJ
75-27-4	Bromodichloromethane	100	0.81	U	
75-25-2	Bromoform	100	0.81	U	
74-83-9	Bromomethane	100	0.81	U	
75-15-0	Carbon disulfide	100	0.81	U	
56-23-5	Carbon tetrachloride	100	0.81	U	
108-90-7	Chlorobenzene	100	0.81	U	
75-00-3	Chloroethane	100	0.81	U	
67-66-3	Chloroform	100	0.81	U	
74-87-3	Chloromethane	100	0.81	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.81	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.81	U	
110-82-7	Cyclohexane	100	6.8	D	J

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: V5435418.D

Sampled: 11/08/23 13:45 Prepared: 11/15/23 09:00 Analyzed: 11/15/23 18:37

Solids: 75.01 Preparation: EPA 5035A Initial/Final: 4.1 g / 5 ml

Batch: BK30956 Sequence: S3K1528 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.81	U	UJ
74-95-3	Dibromomethane	100	0.81	U	UJ
75-71-8	Dichlorodifluoromethane	100	0.81	U	UJ
100-41-4	Ethyl Benzene	100	5.0	D	J
87-68-3	Hexachlorobutadiene	100	0.81	U	UJ
98-82-8	Isopropylbenzene	100	1.7	D	J
79-20-9	Methyl acetate	100	0.81	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.81	U	UJ
108-87-2	Methylcyclohexane	100	19	D	J
75-09-2	Methylene chloride	100	1.6	U	UJ
104-51-8	n-Butylbenzene	100	1.4	D	J
103-65-1	n-Propylbenzene	100	5.0	D	
95-47-6	o-Xylene	100	0.88	D	
179601-23-1	p- & m- Xylenes	100	8.5	D	
99-87-6	p-Isopropyltoluene	100	0.58	JD	
135-98-8	sec-Butylbenzene	100	0.81	U	UJ
100-42-5	Styrene	100	0.81	U	
75-65-0	tert-Butyl alcohol (TBA)	100	0.81	U	
98-06-6	tert-Butylbenzene	100	0.81	U	
127-18-4	Tetrachloroethylene	100	0.81	U	
108-88-3	Toluene	100	0.81	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.81	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.81	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.81	U	
79-01-6	Trichloroethylene	100	0.81	U	
75-69-4	Trichlorofluoromethane	100	0.81	U	
75-01-4	Vinyl Chloride	100	0.81	U	
1330-20-7	Xylenes, Total	100	9.4	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	28.8	57.5	77 - 125	D
SURR: Toluene-d8	50.0	46.4	92.7	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	50.2	100	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	369776	5.566	228329	5.562	
ISTD: Chlorobenzene-d5	1008265	8.585	1015163	8.585	
ISTD: 1,2-Dichlorobenzene-d4	457410	11.553	472142	11.553	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID: V5435370.D

Sampled: 11/08/23 15:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 18:24

Solids: 81.10 Preparation: EPA 5035A Initial/Final: 6.91 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0045	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0045	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0045	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0045	U	
79-00-5	1,1,2-Trichloroethane	1	0.0045	U	
75-34-3	1,1-Dichloroethane	1	0.0045	U	
75-35-4	1,1-Dichloroethylene	1	0.0045	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0045	U	
96-18-4	1,2,3-Trichloropropane	1	0.0045	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0045	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.033		J
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0045	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0045	U	
95-50-1	1,2-Dichlorobenzene	1	0.0045	U	
107-06-2	1,2-Dichloroethane	1	0.0045	U	
78-87-5	1,2-Dichloropropane	1	0.0045	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.011		J
541-73-1	1,3-Dichlorobenzene	1	0.0045	U	UJ
106-46-7	1,4-Dichlorobenzene	1	0.0045	U	UJ
123-91-1	1,4-Dioxane	1	~~0.089~~	U	R
78-93-3	2-Butanone	1	0.0045	U	UJ
591-78-6	2-Hexanone	1	0.0045	U	
108-10-1	4-Methyl-2-pentanone	1	0.0045	U	
67-64-1	Acetone	1	0.0089	U	
107-02-8	Acrolein	1	0.0089	U	
107-13-1	Acrylonitrile	1	0.0045	U	
71-43-2	Benzene	1	0.0045	U	
74-97-5	Bromochloromethane	1	0.0045	U	
75-27-4	Bromodichloromethane	1	0.0045	U	
75-25-2	Bromoform	1	0.0045	U	
74-83-9	Bromomethane	1	0.0045	U	
75-15-0	Carbon disulfide	1	0.0045	U	
56-23-5	Carbon tetrachloride	1	0.0045	U	
108-90-7	Chlorobenzene	1	0.0045	U	
75-00-3	Chloroethane	1	0.0045	U	
67-66-3	Chloroform	1	0.0045	U	
74-87-3	Chloromethane	1	0.0045	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0045	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0045	U	
110-82-7	Cyclohexane	1	0.0080		J

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID: V5435370.D

Sampled: 11/08/23 15:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 18:24

Solids: 81.10 Preparation: EPA 5035A Initial/Final: 6.91 g / 5 ml

Batch: BK30861 Sequence: S3K1518 Calibration: SK30017 Instrument: VOA No. 5

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0045	U	UJ
74-95-3	Dibromomethane	1	0.0045	U	UJ
75-71-8	Dichlorodifluoromethane	1	0.0045	U	UJ
100-41-4	Ethyl Benzene	1	0.0076		J
87-68-3	Hexachlorobutadiene	1	0.0045	U	UJ
98-82-8	Isopropylbenzene	1	0.0028	J	J
79-20-9	Methyl acetate	1	0.0045	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0045	U	UJ
108-87-2	Methylcyclohexane	1	0.050		J
75-09-2	Methylene chloride	1	0.0089	U	UJ
104-51-8	n-Butylbenzene	1	0.0045	U	UJ
103-65-1	n-Propylbenzene	1	0.0089		J
95-47-6	o-Xylene	1	0.0045	U	UJ
179601-23-1	p- & m- Xylenes	1	0.012		J
99-87-6	p-Isopropyltoluene	1	0.0045	U	UJ
135-98-8	sec-Butylbenzene	1	0.0045	U	
100-42-5	Styrene	1	0.0045	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0045	U	
98-06-6	tert-Butylbenzene	1	0.0045	U	
127-18-4	Tetrachloroethylene	1	0.0045	U	
108-88-3	Toluene	1	0.0045	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0045	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0045	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0045	U	
79-01-6	Trichloroethylene	1	0.0045	U	
75-69-4	Trichlorofluoromethane	1	0.0045	U	
75-01-4	Vinyl Chloride	1	0.0045	U	
1330-20-7	Xylenes, Total	1	0.012	J	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	35.4	70.9	77 - 125	*
SURR: Toluene-d8	50.0	45.7	91.5	85 - 120	
SURR: p-Bromofluorobenzene	50.0	49.9	99.8	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	365718	5.566	227820	5.562	
ISTD: Chlorobenzene-d5	1204745	8.585	979379	8.585	
ISTD: 1,2-Dichlorobenzene-d4	536486	11.553	453671	11.553	

* Values outside of QC limits

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0665-10 File ID: V841297.D

Sampled: 11/08/23 15:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 13:59

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30891 Sequence: S3K1513 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	UJ
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0665-10 File ID: V841297.D

Sampled: 11/08/23 15:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 13:59

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30891 Sequence: S3K1513 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	UJ
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	UJ
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.1	111	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	91649	5.791	111817	5.79	
ISTD: Chlorobenzene-d5	387736	8.817	461893	8.817	
ISTD: 1,2-Dichlorobenzene-d4	150405	11.806	210091	11.806	

* Values outside of QC limits

MKP 2/1/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: SVOA

METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (0-5 ft)	23K0665-05RE1
23SP4 (12-14 ft)	23K0665-06
23SP4 (12-14 ft)	23K0665-06RE1
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/12/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID: E70351600.D

Sampled: 11/08/23 11:00 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 20:26

Solids: 91.55 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0890	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0890	U	
95-50-1	1,2-Dichlorobenzene	2	0.0890	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0890	U	
541-73-1	1,3-Dichlorobenzene	2	0.0890	U	
106-46-7	1,4-Dichlorobenzene	2	0.0890	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0890	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.0890	U	UJ
120-83-2	2,4-Dichlorophenol	2	0.0890	U	UJ
105-67-9	2,4-Dimethylphenol	2	0.0890	U	UJ
51-28-5	2,4-Dinitrophenol	2	~~0.178~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0890	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0890	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0890	U	
95-57-8	2-Chlorophenol	2	0.0890	U	UJ
91-57-6	2-Methylnaphthalene	2	0.0890	U	
95-48-7	2-Methylphenol	2	0.0890	U	UJ
88-74-4	2-Nitroaniline	2	0.178	U	
88-75-5	2-Nitrophenol	2	0.0890	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0890	U	UJ
91-94-1	3,3-Dichlorobenzidine	2	0.0890	U	
99-09-2	3-Nitroaniline	2	0.178	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.178~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0890	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0890	U	UJ
106-47-8	4-Chloroaniline	2	0.0890	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0890	U	
100-01-6	4-Nitroaniline	2	0.178	U	
100-02-7	4-Nitrophenol	2	0.178	U	UJ
83-32-9	Acenaphthene	2	0.0890	U	
208-96-8	Acenaphthylene	2	0.0890	U	
98-86-2	Acetophenone	2	0.0890	U	
62-53-3	Aniline	2	0.356	U	
120-12-7	Anthracene	2	0.0448	JD	
1912-24-9	Atrazine	2	0.0890	U	
100-52-7	Benzaldehyde	2	0.0890	U	
92-87-5	Benzidine	2	0.356	U	
56-55-3	Benzo(a)anthracene	2	0.150	D	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID: E70351600.D

Sampled: 11/08/23 11:00 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 20:26

Solids: 91.55 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.141	D	
205-99-2	Benzo(b)fluoranthene	2	0.131	D	
191-24-2	Benzo(g,h,i)perylene	2	0.125	D	
207-08-9	Benzo(k)fluoranthene	2	0.0989	D	
65-85-0	Benzoic acid	2	0.0890	U	UJ
100-51-6	Benzyl alcohol	2	0.0890	U	
85-68-7	Benzyl butyl phthalate	2	0.0890	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0890	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0890	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0890	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0890	U	
105-60-2	Caprolactam	2	0.178	U	
86-74-8	Carbazole	2	0.0890	U	
218-01-9	Chrysene	2	0.140	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.0890	U	
132-64-9	Dibenzofuran	2	0.0890	U	
84-66-2	Diethyl phthalate	2	0.0890	U	
131-11-3	Dimethyl phthalate	2	0.0890	U	
84-74-2	Di-n-butyl phthalate	2	0.0890	U	
117-84-0	Di-n-octyl phthalate	2	0.0890	U	UJ
122-39-4	Diphenylamine	2	0.178	U	
206-44-0	Fluoranthene	2	0.292	D	
86-73-7	Fluorene	2	0.0890	U	
118-74-1	Hexachlorobenzene	2	0.0890	U	
87-68-3	Hexachlorobutadiene	2	0.0890	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0890	U	UJ
67-72-1	Hexachloroethane	2	0.0890	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.115	D	
78-59-1	Isophorone	2	0.0890	U	
91-20-3	Naphthalene	2	0.0890	U	
98-95-3	Nitrobenzene	2	0.0890	U	
62-75-9	N-Nitrosodimethylamine	2	0.0890	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0890	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0890	U	
87-86-5	Pentachlorophenol	2	0.0890	U	UJ
85-01-8	Phenanthrene	2	0.171	D	
108-95-2	Phenol	2	0.0890	U	UJ
129-00-0	Pyrene	2	0.281	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-01	File ID:	E70351600.D
Sampled:	11/08/23 11:00	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 20:26
Solids:	91.55	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	0.173	9.72	20 - 108	*
SURR: Phenol-d6	1.78	0.365	20.5	23 - 114	*
SURR: Nitrobenzene-d5	0.889	0.243	27.4	22 - 108	
SURR: 2-Fluorobiphenyl	0.889	0.244	27.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	0.0697	3.92	19 - 110	*
SURR: Terphenyl-d14	0.889	0.255	28.7	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	572607	4.754	543964	4.765	
ISTD: Naphthalene-d8	2344423	5.789	2519517	5.801	
ISTD: Acenaphthene-d10	1320073	7.436	1353643	7.453	
ISTD: Phenanthrene-d10	2282481	9.455	2306245	9.472	
ISTD: Chrysene-d12	1667448	14.045	1732529	14.062	
ISTD: Perylene-d12	1790946	17.041	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID: E70351601.D

Sampled: 11/08/23 11:15 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 20:56

Solids: 92.17 Preparation: EPA 3550C Initial/Final: 30.6 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0887	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.177	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0887	U	
95-50-1	1,2-Dichlorobenzene	2	0.0887	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0887	U	
541-73-1	1,3-Dichlorobenzene	2	0.0887	U	
106-46-7	1,4-Dichlorobenzene	2	0.0887	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.177	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0887	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0887	U	
120-83-2	2,4-Dichlorophenol	2	0.0887	U	
105-67-9	2,4-Dimethylphenol	2	0.0887	U	
51-28-5	2,4-Dinitrophenol	2	0.177	U	
121-14-2	2,4-Dinitrotoluene	2	~~0.0887~~	U	R
606-20-2	2,6-Dinitrotoluene	2	0.0887	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0887	U	UJ
95-57-8	2-Chlorophenol	2	0.0887	U	
91-57-6	2-Methylnaphthalene	2	0.0887	U	
95-48-7	2-Methylphenol	2	0.0887	U	
88-74-4	2-Nitroaniline	2	0.177	U	
88-75-5	2-Nitrophenol	2	0.0887	U	
65794-96-9	3- & 4-Methylphenols	2	0.0887	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0887	U	
99-09-2	3-Nitroaniline	2	0.177	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.177~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0887	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0887	U	
106-47-8	4-Chloroaniline	2	0.0887	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0887	U	
100-01-6	4-Nitroaniline	2	0.177	U	
100-02-7	4-Nitrophenol	2	0.177	U	
83-32-9	Acenaphthene	2	0.0887	U	
208-96-8	Acenaphthylene	2	0.0887	U	
98-86-2	Acetophenone	2	0.0887	U	
62-53-3	Aniline	2	0.355	U	
120-12-7	Anthracene	2	0.0801	JD	
1912-24-9	Atrazine	2	0.0887	U	
100-52-7	Benzaldehyde	2	0.0887	U	
92-87-5	Benzidine	2	0.355	U	
56-55-3	Benzo(a)anthracene	2	0.698	D	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0665

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0665-02 | File ID: E70351601.D

Sampled: 11/08/23 11:15 | Prepared: 11/16/23 08:12 | Analyzed: 11/16/23 20:56

Solids: 92.17 | Preparation: EPA 3550C | Initial/Final: 30.6 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.935	D	
205-99-2	Benzo(b)fluoranthene	2	0.767	D	
191-24-2	Benzo(g,h,i)perylene	2	0.660	D	
207-08-9	Benzo(k)fluoranthene	2	0.625	D	
65-85-0	Benzoic acid	2	0.0887	U	UJ
100-51-6	Benzyl alcohol	2	0.0887	U	
85-68-7	Benzyl butyl phthalate	2	0.0887	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0887	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0887	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0887	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0887	U	
105-60-2	Caprolactam	2	0.177	U	
86-74-8	Carbazole	2	0.0887	U	
218-01-9	Chrysene	2	0.704	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.175	D	
132-64-9	Dibenzofuran	2	0.0887	U	
84-66-2	Diethyl phthalate	2	0.0887	U	
131-11-3	Dimethyl phthalate	2	0.0887	U	
84-74-2	Di-n-butyl phthalate	2	0.0887	U	
117-84-0	Di-n-octyl phthalate	2	0.0893	D	J
122-39-4	Diphenylamine	2	0.177	U	
206-44-0	Fluoranthene	2	0.775	D	
86-73-7	Fluorene	2	0.0887	U	
118-74-1	Hexachlorobenzene	2	0.0887	U	
87-68-3	Hexachlorobutadiene	2	0.0887	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0887	U	UJ
67-72-1	Hexachloroethane	2	0.0887	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.764	D	
78-59-1	Isophorone	2	0.0887	U	
91-20-3	Naphthalene	2	0.0887	U	
98-95-3	Nitrobenzene	2	0.0887	U	
62-75-9	N-Nitrosodimethylamine	2	0.0887	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0887	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0887	U	
87-86-5	Pentachlorophenol	2	0.0887	U	
85-01-8	Phenanthrene	2	0.277	D	
108-95-2	Phenol	2	0.0887	U	
129-00-0	Pyrene	2	0.939	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (8-12 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-02	File ID:	E70351601.D
Sampled:	11/08/23 11:15	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 20:56
Solids:	92.17	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.77	1.16	65.6	20 - 108	
SURR: Phenol-d6	1.77	1.17	66.0	23 - 114	
SURR: Nitrobenzene-d5	0.886	0.632	71.3	22 - 108	
SURR: 2-Fluorobiphenyl	0.886	0.662	74.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1.77	1.55	87.7	19 - 110	
SURR: Terphenyl-d14	0.886	0.701	79.1	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	598847	4.759	543964	4.765	
ISTD: Naphthalene-d8	2469731	5.795	2519517	5.801	
ISTD: Acenaphthene-d10	1382470	7.442	1353643	7.453	
ISTD: Phenanthrene-d10	2321016	9.46	2306245	9.472	
ISTD: Chrysene-d12	1588506	14.057	1732529	14.062	
ISTD: Perylene-d12	1733728	17.053	1702355	17.047	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID: E70351602.D

Sampled: 11/08/23 11:25 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 21:25

Solids: 84.23 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0984	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.196	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0984	U	
95-50-1	1,2-Dichlorobenzene	2	0.0984	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0984	U	
541-73-1	1,3-Dichlorobenzene	2	0.0984	U	
106-46-7	1,4-Dichlorobenzene	2	0.0984	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.196	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0984	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0984	U	
120-83-2	2,4-Dichlorophenol	2	0.0984	U	
105-67-9	2,4-Dimethylphenol	2	0.0984	U	
51-28-5	2,4-Dinitrophenol	2	~~0.196~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0984	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0984	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0984	U	
95-57-8	2-Chlorophenol	2	0.0984	U	
91-57-6	2-Methylnaphthalene	2	0.871	D	
95-48-7	2-Methylphenol	2	0.0984	U	
88-74-4	2-Nitroaniline	2	0.196	U	
88-75-5	2-Nitrophenol	2	0.0984	U	
65794-96-9	3- & 4-Methylphenols	2	0.0984	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0984	U	
99-09-2	3-Nitroaniline	2	0.196	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.196~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0984	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0984	U	
106-47-8	4-Chloroaniline	2	0.0984	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0984	U	
100-01-6	4-Nitroaniline	2	0.196	U	
100-02-7	4-Nitrophenol	2	0.196	U	
83-32-9	Acenaphthene	2	0.0984	U	
208-96-8	Acenaphthylene	2	0.0984	U	
98-86-2	Acetophenone	2	0.0984	U	
62-53-3	Aniline	2	0.394	U	
120-12-7	Anthracene	2	0.0984	U	
1912-24-9	Atrazine	2	0.0984	U	
100-52-7	Benzaldehyde	2	0.0984	U	
92-87-5	Benzidine	2	0.394	U	
56-55-3	Benzo(a)anthracene	2	0.117	D	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0665

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0665-03 | File ID: E70351602.D

Sampled: 11/08/23 11:25 | Prepared: 11/16/23 08:12 | Analyzed: 11/16/23 21:25

Solids: 84.23 | Preparation: EPA 3550C | Initial/Final: 30.2 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.131	D	
205-99-2	Benzo(b)fluoranthene	2	0.103	D	
191-24-2	Benzo(g,h,i)perylene	2	0.0920	JD	
207-08-9	Benzo(k)fluoranthene	2	0.0928	JD	
65-85-0	Benzoic acid	2	0.0984	U	UJ
100-51-6	Benzyl alcohol	2	0.0984	U	
85-68-7	Benzyl butyl phthalate	2	0.0984	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0984	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0984	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0984	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0984	U	
105-60-2	Caprolactam	2	0.196	U	
86-74-8	Carbazole	2	0.0984	U	
218-01-9	Chrysene	2	0.122	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.0984	U	
132-64-9	Dibenzofuran	2	0.0984	U	
84-66-2	Diethyl phthalate	2	0.0984	U	
131-11-3	Dimethyl phthalate	2	0.0984	U	
84-74-2	Di-n-butyl phthalate	2	0.0984	U	
117-84-0	Di-n-octyl phthalate	2	0.104	D	J
122-39-4	Diphenylamine	2	0.196	U	
206-44-0	Fluoranthene	2	0.230	D	
86-73-7	Fluorene	2	0.0984	U	
118-74-1	Hexachlorobenzene	2	0.0984	U	
87-68-3	Hexachlorobutadiene	2	0.0984	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0984	U	UJ
67-72-1	Hexachloroethane	2	0.0984	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0959	JD	
78-59-1	Isophorone	2	0.0984	U	
91-20-3	Naphthalene	2	1.20	D	
98-95-3	Nitrobenzene	2	0.0984	U	
62-75-9	N-Nitrosodimethylamine	2	0.0984	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0984	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0984	U	
87-86-5	Pentachlorophenol	2	0.0984	U	
85-01-8	Phenanthrene	2	0.178	D	
108-95-2	Phenol	2	0.0984	U	
129-00-0	Pyrene	2	0.249	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-03	File ID:	E70351602.D
Sampled:	11/08/23 11:25	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 21:25
Solids:	84.23	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.97	1.08	55.0	20 - 108	
SURR: Phenol-d6	1.97	1.02	52.1	23 - 114	
SURR: Nitrobenzene-d5	0.983	0.598	60.8	22 - 108	
SURR: 2-Fluorobiphenyl	0.983	0.560	57.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.97	1.36	69.1	19 - 110	
SURR: Terphenyl-d14	0.983	0.652	66.3	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	541606	4.759	543964	4.765	
ISTD: Naphthalene-d8	2183018	5.801	2519517	5.801	
ISTD: Acenaphthene-d10	1227154	7.447	1353643	7.453	
ISTD: Phenanthrene-d10	2228160	9.466	2306245	9.472	
ISTD: Chrysene-d12	1526352	14.057	1732529	14.062	
ISTD: Perylene-d12	1611086	17.053	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID: E70351603.D

Sampled: 11/08/23 11:40 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 21:55

Solids: 81.98 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.101	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.202	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.101	U	
95-50-1	1,2-Dichlorobenzene	2	0.101	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.101	U	
541-73-1	1,3-Dichlorobenzene	2	0.101	U	
106-46-7	1,4-Dichlorobenzene	2	0.101	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.202	U	
95-95-4	2,4,5-Trichlorophenol	2	0.101	U	
88-06-2	2,4,6-Trichlorophenol	2	0.101	U	
120-83-2	2,4-Dichlorophenol	2	0.101	U	
105-67-9	2,4-Dimethylphenol	2	0.101	U	
51-28-5	2,4-Dinitrophenol	2	~~0.202~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.101	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.101	U	UJ
91-58-7	2-Chloronaphthalene	2	0.101	U	
95-57-8	2-Chlorophenol	2	0.101	U	
91-57-6	2-Methylnaphthalene	2	0.101	U	
95-48-7	2-Methylphenol	2	0.101	U	
88-74-4	2-Nitroaniline	2	0.202	U	
88-75-5	2-Nitrophenol	2	0.101	U	
65794-96-9	3- & 4-Methylphenols	2	0.101	U	
91-94-1	3,3-Dichlorobenzidine	2	0.101	U	
99-09-2	3-Nitroaniline	2	0.202	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.202~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.101	U	
59-50-7	4-Chloro-3-methylphenol	2	0.101	U	
106-47-8	4-Chloroaniline	2	0.101	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.101	U	
100-01-6	4-Nitroaniline	2	0.202	U	
100-02-7	4-Nitrophenol	2	0.202	U	
83-32-9	Acenaphthene	2	0.101	U	
208-96-8	Acenaphthylene	2	0.101	U	
98-86-2	Acetophenone	2	0.101	U	
62-53-3	Aniline	2	0.405	U	
120-12-7	Anthracene	2	0.101	U	
1912-24-9	Atrazine	2	0.101	U	
100-52-7	Benzaldehyde	2	0.101	U	
92-87-5	Benzidine	2	0.405	U	
56-55-3	Benzo(a)anthracene	2	0.101	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0665

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0665-04 | File ID: E70351603.D

Sampled: 11/08/23 11:40 | Prepared: 11/16/23 08:12 | Analyzed: 11/16/23 21:55

Solids: 81.98 | Preparation: EPA 3550C | Initial/Final: 30.2 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.101	U	
205-99-2	Benzo(b)fluoranthene	2	0.101	U	
191-24-2	Benzo(g,h,i)perylene	2	0.101	U	
207-08-9	Benzo(k)fluoranthene	2	0.101	U	
65-85-0	Benzoic acid	2	0.101	U	UJ
100-51-6	Benzyl alcohol	2	0.101	U	
85-68-7	Benzyl butyl phthalate	2	0.101	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.101	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.101	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.101	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.101	U	
105-60-2	Caprolactam	2	0.202	U	
86-74-8	Carbazole	2	0.101	U	
218-01-9	Chrysene	2	0.101	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.101	U	
132-64-9	Dibenzofuran	2	0.101	U	
84-66-2	Diethyl phthalate	2	0.101	U	
131-11-3	Dimethyl phthalate	2	0.101	U	
84-74-2	Di-n-butyl phthalate	2	0.101	U	
117-84-0	Di-n-octyl phthalate	2	0.101	U	UJ
122-39-4	Diphenylamine	2	0.202	U	
206-44-0	Fluoranthene	2	0.101	U	
86-73-7	Fluorene	2	0.101	U	
118-74-1	Hexachlorobenzene	2	0.101	U	
87-68-3	Hexachlorobutadiene	2	0.101	U	
77-47-4	Hexachlorocyclopentadiene	2	0.101	U	UJ
67-72-1	Hexachloroethane	2	0.101	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.101	U	
78-59-1	Isophorone	2	0.101	U	
91-20-3	Naphthalene	2	0.101	U	
98-95-3	Nitrobenzene	2	0.101	U	
62-75-9	N-Nitrosodimethylamine	2	0.101	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.101	U	
86-30-6	N-Nitrosodiphenylamine	2	0.101	U	
87-86-5	Pentachlorophenol	2	0.101	U	
85-01-8	Phenanthrene	2	0.101	U	
108-95-2	Phenol	2	0.101	U	
129-00-0	Pyrene	2	0.101	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	E70351603.D
Sampled:	11/08/23 11:40	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 21:55
Solids:	81.98	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.02	1.15	56.8	20 - 108	
SURR: Phenol-d6	2.02	1.16	57.2	23 - 114	
SURR: Nitrobenzene-d5	1.01	0.612	60.6	22 - 108	
SURR: 2-Fluorobiphenyl	1.01	0.643	63.7	21 - 113	
SURR: 2,4,6-Tribromophenol	2.02	1.49	73.7	19 - 110	
SURR: Terphenyl-d14	1.01	0.663	65.7	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	619758	4.765	543964	4.765	
ISTD: Naphthalene-d8	2519405	5.795	2519517	5.801	
ISTD: Acenaphthene-d10	1419171	7.447	1353643	7.453	
ISTD: Phenanthrene-d10	2400240	9.466	2306245	9.472	
ISTD: Chrysene-d12	1845034	14.062	1732529	14.062	
ISTD: Perylene-d12	1801214	17.053	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID: E70351604.D

Sampled: 11/08/23 13:30 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 22:25

Solids: 88.63 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0920	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.184	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0920	U	
95-50-1	1,2-Dichlorobenzene	2	0.0920	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0920	U	
541-73-1	1,3-Dichlorobenzene	2	0.0920	U	
106-46-7	1,4-Dichlorobenzene	2	0.0920	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.184	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0920	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0920	U	
120-83-2	2,4-Dichlorophenol	2	0.0920	U	
105-67-9	2,4-Dimethylphenol	2	0.0920	U	
51-28-5	2,4-Dinitrophenol	2	~~0.184~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0920	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0920	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0920	U	
95-57-8	2-Chlorophenol	2	0.0920	U	
91-57-6	2-Methylnaphthalene	2	0.0470	JD	
95-48-7	2-Methylphenol	2	0.0920	U	
88-74-4	2-Nitroaniline	2	0.184	U	
88-75-5	2-Nitrophenol	2	0.0920	U	
65794-96-9	3- & 4-Methylphenols	2	0.0920	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0920	U	
99-09-2	3-Nitroaniline	2	0.184	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.184~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0920	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0920	U	
106-47-8	4-Chloroaniline	2	0.0920	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0920	U	
100-01-6	4-Nitroaniline	2	0.184	U	
100-02-7	4-Nitrophenol	2	0.184	U	
83-32-9	Acenaphthene	2	0.0595	JD	
208-96-8	Acenaphthylene	2	0.603	D	
98-86-2	Acetophenone	2	0.0920	U	
62-53-3	Aniline	2	0.368	U	
120-12-7	Anthracene	2	0.733	D	
1912-24-9	Atrazine	2	0.0920	U	
100-52-7	Benzaldehyde	2	0.0920	U	
92-87-5	Benzidine	2	0.368	U	
56-55-3	Benzo(a)anthracene	2	2.92	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0665

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0665-05 | File ID: E70351604.D

Sampled: 11/08/23 13:30 | Prepared: 11/16/23 08:12 | Analyzed: 11/16/23 22:25

Solids: 88.63 | Preparation: EPA 3550C | Initial/Final: 30.7 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	2.91	D	
205-99-2	Benzo(b)fluoranthene	2	2.81	D	
191-24-2	Benzo(g,h,i)perylene	2	1.51	D	
207-08-9	Benzo(k)fluoranthene	2	2.11	D	
65-85-0	Benzoic acid	2	0.0920	U	UJ
100-51-6	Benzyl alcohol	2	0.0920	U	
85-68-7	Benzyl butyl phthalate	2	0.0920	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0920	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0920	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0920	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0920	U	
105-60-2	Caprolactam	2	0.184	U	
86-74-8	Carbazole	2	0.0581	JD	
218-01-9	Chrysene	2	2.35	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.596	D	
132-64-9	Dibenzofuran	2	0.0920	U	
84-66-2	Diethyl phthalate	2	0.0920	U	
131-11-3	Dimethyl phthalate	2	0.0920	U	
84-74-2	Di-n-butyl phthalate	2	0.0920	U	
117-84-0	Di-n-octyl phthalate	2	0.0515	JD	J
122-39-4	Diphenylamine	2	0.184	U	
86-73-7	Fluorene	2	0.0920	U	
118-74-1	Hexachlorobenzene	2	0.0920	U	
87-68-3	Hexachlorobutadiene	2	0.0920	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0920	U	UJ
67-72-1	Hexachloroethane	2	0.0920	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	2.10	D	
78-59-1	Isophorone	2	0.0920	U	
91-20-3	Naphthalene	2	0.243	D	
98-95-3	Nitrobenzene	2	0.0920	U	
62-75-9	N-Nitrosodimethylamine	2	0.0920	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0920	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0920	U	
87-86-5	Pentachlorophenol	2	0.0920	U	
85-01-8	Phenanthrene	2	0.827	D	
108-95-2	Phenol	2	0.0920	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.84	0.814	44.3	20 - 108	
SURR: Phenol-d6	1.84	0.951	51.8	23 - 114	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (0-5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-05	File ID:	E70351604.D
Sampled:	11/08/23 13:30	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 22:25
Solids:	88.63	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	0.919	0.501	54.6	22 - 108	
SURR: 2-Fluorobiphenyl	0.919	0.553	60.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.84	0.474	25.8	19 - 110	
SURR: Terphenyl-d14	0.919	0.590	64.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	591343	4.76	543964	4.765	
ISTD: Naphthalene-d8	2405919	5.795	2519517	5.801	
ISTD: Acenaphthene-d10	1334340	7.447	1353643	7.453	
ISTD: Phenanthrene-d10	2225055	9.46	2306245	9.472	
ISTD: Chrysene-d12	1598586	14.062	1732529	14.062	
ISTD: Perylene-d12	1721586	17.059	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (0-5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-05RE1	File ID:	SV649532.D
Sampled:	11/08/23 13:30	Prepared:	11/16/23 08:12	Analyzed:	11/17/23 09:53
Solids:	88.63	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31053	Sequence:	S3K1737	Calibration:	SK30008
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
206-44-0	Fluoranthene	10	5.56	D
129-00-0	Pyrene	10	4.68	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.84	0.981	53.4	20 - 108	
SURR: Phenol-d6	1.84	1.01	55.0	23 - 114	
SURR: Nitrobenzene-d5	0.919	0.474	51.6	22 - 108	
SURR: 2-Fluorobiphenyl	0.919	0.518	56.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.84	0.00		19 - 110	*
SURR: Terphenyl-d14	0.919	0.606	66.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1020455	4.78	1020142	4.78	
ISTD: Naphthalene-d8	3605575	5.7	4049469	5.7	
ISTD: Acenaphthene-d10	2547425	7.18	2546489	7.18	
ISTD: Phenanthrene-d10	5030151	9.17	5121046	9.17	
ISTD: Chrysene-d12	5131035	14.6	4977727	14.6	
ISTD: Perylene-d12	6106216	17.7	5785920	17.7	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: E70351605.D

Sampled: 11/08/23 13:45 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 22:54

Solids: 84.98 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0540	JD	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.193	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0965	U	
95-50-1	1,2-Dichlorobenzene	2	0.0965	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0965	U	
541-73-1	1,3-Dichlorobenzene	2	0.0965	U	
106-46-7	1,4-Dichlorobenzene	2	0.0965	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.193	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0965	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0965	U	
120-83-2	2,4-Dichlorophenol	2	0.0965	U	
105-67-9	2,4-Dimethylphenol	2	0.0965	U	
51-28-5	2,4-Dinitrophenol	2	~~0.193~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0965	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0965	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0965	U	
95-57-8	2-Chlorophenol	2	0.0965	U	
95-48-7	2-Methylphenol	2	0.0965	U	
88-74-4	2-Nitroaniline	2	0.193	U	
88-75-5	2-Nitrophenol	2	0.0965	U	
65794-96-9	3- & 4-Methylphenols	2	0.0965	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0965	U	
99-09-2	3-Nitroaniline	2	0.193	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.193~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0965	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0965	U	
106-47-8	4-Chloroaniline	2	0.0965	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0965	U	
100-01-6	4-Nitroaniline	2	0.193	U	
100-02-7	4-Nitrophenol	2	0.193	U	
83-32-9	Acenaphthene	2	0.0702	JD	
208-96-8	Acenaphthylene	2	0.0965	U	
98-86-2	Acetophenone	2	0.0965	U	
62-53-3	Aniline	2	0.387	U	
120-12-7	Anthracene	2	0.235	D	
1912-24-9	Atrazine	2	0.0965	U	
100-52-7	Benzaldehyde	2	0.0965	U	
92-87-5	Benzidine	2	0.387	U	
56-55-3	Benzo(a)anthracene	2	1.19	D	
50-32-8	Benzo(a)pyrene	2	1.62	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: E70351605.D

Sampled: 11/08/23 13:45 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 22:54

Solids: 84.98 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
205-99-2	Benzo(b)fluoranthene	2	1.21	D	
191-24-2	Benzo(g,h,i)perylene	2	1.08	D	
207-08-9	Benzo(k)fluoranthene	2	1.03	D	
65-85-0	Benzoic acid	2	0.0965	U	UJ
100-51-6	Benzyl alcohol	2	0.0965	U	
85-68-7	Benzyl butyl phthalate	2	0.0965	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0965	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0965	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0965	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0965	U	
105-60-2	Caprolactam	2	0.193	U	
86-74-8	Carbazole	2	0.0965	U	
218-01-9	Chrysene	2	1.17	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.256	D	
132-64-9	Dibenzofuran	2	0.0965	U	
84-66-2	Diethyl phthalate	2	0.0965	U	
131-11-3	Dimethyl phthalate	2	0.0965	U	
84-74-2	Di-n-butyl phthalate	2	0.0965	U	
117-84-0	Di-n-octyl phthalate	2	0.0887	JD	J
122-39-4	Diphenylamine	2	0.193	U	
206-44-0	Fluoranthene	2	1.99	D	
86-73-7	Fluorene	2	0.101	D	
118-74-1	Hexachlorobenzene	2	0.0965	U	
87-68-3	Hexachlorobutadiene	2	0.0965	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0965	U	UJ
67-72-1	Hexachloroethane	2	0.0965	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	1.26	D	
78-59-1	Isophorone	2	0.0965	U	
98-95-3	Nitrobenzene	2	0.0965	U	
62-75-9	N-Nitrosodimethylamine	2	0.0965	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0965	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0965	U	
87-86-5	Pentachlorophenol	2	0.0965	U	
85-01-8	Phenanthrene	2	0.884	D	
108-95-2	Phenol	2	0.0965	U	
129-00-0	Pyrene	2	2.42	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.93	0.789	40.9	20 - 108	
SURR: Phenol-d6	1.93	0.729	37.8	23 - 114	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-06	File ID:	E70351605.D
Sampled:	11/08/23 13:45	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 22:54
Solids:	84.98	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	0.965	0.528	54.7	22 - 108	
SURR: 2-Fluorobiphenyl	0.965	0.404	41.8	21 - 113	
SURR: 2,4,6-Tribromophenol	1.93	0.946	49.0	19 - 110	
SURR: Terphenyl-d14	0.965	0.494	51.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	544007	4.765	543964	4.765	
ISTD: Naphthalene-d8	2270227	5.801	2519517	5.801	
ISTD: Acenaphthene-d10	1221302	7.447	1353643	7.453	
ISTD: Phenanthrene-d10	2418639	9.46	2306245	9.472	
ISTD: Chrysene-d12	1585295	14.057	1732529	14.062	
ISTD: Perylene-d12	1681383	17.053	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06RE1 File ID: SV649533.D

Sampled: 11/08/23 13:45 Prepared: 11/16/23 08:12 Analyzed: 11/17/23 10:24

Solids: 84.98 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31053 Sequence: S3K1737 Calibration: SK30008 Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	3.59	D
91-20-3	Naphthalene	5	6.47	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.93	0.934	48.4	20 - 108	
SURR: Phenol-d6	1.93	0.187	9.70	23 - 114	*
SURR: Nitrobenzene-d5	0.965	0.639	66.2	22 - 108	
SURR: 2-Fluorobiphenyl	0.965	0.453	47.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.93	1.02	52.9	19 - 110	
SURR: Terphenyl-d14	0.965	0.471	48.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	969341	4.78	1020142	4.78	
ISTD: Naphthalene-d8	3403059	5.71	4049469	5.7	
ISTD: Acenaphthene-d10	2445004	7.18	2546489	7.18	
ISTD: Phenanthrene-d10	4935845	9.17	5121046	9.17	
ISTD: Chrysene-d12	4961816	14.6	4977727	14.6	
ISTD: Perylene-d12	5905027	17.7	5785920	17.7	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: E70351606.D

Sampled: 11/08/23 13:45 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 23:24

Solids: 75.01 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.111	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.221	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.111	U	
95-50-1	1,2-Dichlorobenzene	2	0.111	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.111	U	
541-73-1	1,3-Dichlorobenzene	2	0.111	U	
106-46-7	1,4-Dichlorobenzene	2	0.111	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.221	U	
95-95-4	2,4,5-Trichlorophenol	2	0.111	U	
88-06-2	2,4,6-Trichlorophenol	2	0.111	U	
120-83-2	2,4-Dichlorophenol	2	0.111	U	
105-67-9	2,4-Dimethylphenol	2	0.111	U	
51-28-5	2,4-Dinitrophenol	2	~~0.221~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.111	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.111	U	UJ
91-58-7	2-Chloronaphthalene	2	0.111	U	
95-57-8	2-Chlorophenol	2	0.111	U	
91-57-6	2-Methylnaphthalene	2	2.70	D	
95-48-7	2-Methylphenol	2	0.111	U	
88-74-4	2-Nitroaniline	2	0.221	U	
88-75-5	2-Nitrophenol	2	0.111	U	
65794-96-9	3- & 4-Methylphenols	2	0.111	U	
91-94-1	3,3-Dichlorobenzidine	2	0.111	U	
99-09-2	3-Nitroaniline	2	0.221	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.221~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.111	U	
59-50-7	4-Chloro-3-methylphenol	2	0.111	U	
106-47-8	4-Chloroaniline	2	0.111	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.111	U	
100-01-6	4-Nitroaniline	2	0.221	U	
100-02-7	4-Nitrophenol	2	0.221	U	
83-32-9	Acenaphthene	2	0.111	U	
208-96-8	Acenaphthylene	2	0.111	U	
98-86-2	Acetophenone	2	0.111	U	
62-53-3	Aniline	2	0.444	U	
120-12-7	Anthracene	2	0.111	U	
1912-24-9	Atrazine	2	0.111	U	
100-52-7	Benzaldehyde	2	0.111	U	
92-87-5	Benzidine	2	0.444	U	
56-55-3	Benzo(a)anthracene	2	0.0611	JD	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0665

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0665-07 | File ID: E70351606.D

Sampled: 11/08/23 13:45 | Prepared: 11/16/23 08:12 | Analyzed: 11/16/23 23:24

Solids: 75.01 | Preparation: EPA 3550C | Initial/Final: 30.1 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.0602	JD	
205-99-2	Benzo(b)fluoranthene	2	0.111	U	
191-24-2	Benzo(g,h,i)perylene	2	0.111	U	
207-08-9	Benzo(k)fluoranthene	2	0.111	U	
65-85-0	Benzoic acid	2	0.111	U	UJ
100-51-6	Benzyl alcohol	2	0.111	U	
85-68-7	Benzyl butyl phthalate	2	0.111	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.111	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.111	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.111	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.111	U	
105-60-2	Caprolactam	2	0.221	U	
86-74-8	Carbazole	2	0.111	U	
218-01-9	Chrysene	2	0.0611	JD	
53-70-3	Dibenzo(a,h)anthracene	2	0.111	U	
132-64-9	Dibenzofuran	2	0.111	U	
84-66-2	Diethyl phthalate	2	0.111	U	
131-11-3	Dimethyl phthalate	2	0.111	U	
84-74-2	Di-n-butyl phthalate	2	0.111	U	
117-84-0	Di-n-octyl phthalate	2	0.0682	JD	J
122-39-4	Diphenylamine	2	0.221	U	
206-44-0	Fluoranthene	2	0.133	D	
86-73-7	Fluorene	2	0.111	U	
118-74-1	Hexachlorobenzene	2	0.111	U	
87-68-3	Hexachlorobutadiene	2	0.111	U	
77-47-4	Hexachlorocyclopentadiene	2	0.111	U	UJ
67-72-1	Hexachloroethane	2	0.111	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.111	U	
78-59-1	Isophorone	2	0.111	U	
91-20-3	Naphthalene	2	3.39	D	
98-95-3	Nitrobenzene	2	0.111	U	
62-75-9	N-Nitrosodimethylamine	2	0.111	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.111	U	
86-30-6	N-Nitrosodiphenylamine	2	0.111	U	
87-86-5	Pentachlorophenol	2	0.111	U	
85-01-8	Phenanthrene	2	0.144	D	
108-95-2	Phenol	2	0.111	U	
129-00-0	Pyrene	2	0.153	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (14-16 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-07	File ID:	E70351606.D
Sampled:	11/08/23 13:45	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 23:24
Solids:	75.01	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.21	1.18	53.3	20 - 108	
SURR: Phenol-d6	2.21	1.12	50.5	23 - 114	
SURR: Nitrobenzene-d5	1.11	0.731	66.0	22 - 108	
SURR: 2-Fluorobiphenyl	1.11	0.625	56.5	21 - 113	
SURR: 2,4,6-Tribromophenol	2.21	1.50	67.6	19 - 110	
SURR: Terphenyl-d14	1.11	0.712	64.3	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	532801	4.759	543964	4.765	
ISTD: Naphthalene-d8	2153042	5.795	2519517	5.801	
ISTD: Acenaphthene-d10	1216106	7.442	1353643	7.453	
ISTD: Phenanthrene-d10	2196842	9.46	2306245	9.472	
ISTD: Chrysene-d12	1509333	14.051	1732529	14.062	
ISTD: Perylene-d12	1607705	17.047	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID: E70351607.D

Sampled: 11/08/23 15:00 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 23:54

Solids: 81.10 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.102	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.204	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.102	U	
95-50-1	1,2-Dichlorobenzene	2	0.102	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.102	U	
541-73-1	1,3-Dichlorobenzene	2	0.102	U	
106-46-7	1,4-Dichlorobenzene	2	0.102	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.204	U	
95-95-4	2,4,5-Trichlorophenol	2	0.102	U	
88-06-2	2,4,6-Trichlorophenol	2	0.102	U	
120-83-2	2,4-Dichlorophenol	2	0.102	U	
105-67-9	2,4-Dimethylphenol	2	0.102	U	
51-28-5	2,4-Dinitrophenol	2	~~0.204~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.102	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.102	U	UJ
91-58-7	2-Chloronaphthalene	2	0.102	U	
95-57-8	2-Chlorophenol	2	0.102	U	
91-57-6	2-Methylnaphthalene	2	0.102	U	
95-48-7	2-Methylphenol	2	0.102	U	
88-74-4	2-Nitroaniline	2	0.204	U	
88-75-5	2-Nitrophenol	2	0.102	U	
65794-96-9	3- & 4-Methylphenols	2	0.102	U	
91-94-1	3,3-Dichlorobenzidine	2	0.102	U	
99-09-2	3-Nitroaniline	2	0.204	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.204~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.102	U	
59-50-7	4-Chloro-3-methylphenol	2	0.102	U	
106-47-8	4-Chloroaniline	2	0.102	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.102	U	
100-01-6	4-Nitroaniline	2	0.204	U	
100-02-7	4-Nitrophenol	2	0.204	U	
83-32-9	Acenaphthene	2	0.102	U	
208-96-8	Acenaphthylene	2	0.102	U	
98-86-2	Acetophenone	2	0.102	U	
62-53-3	Aniline	2	0.409	U	
120-12-7	Anthracene	2	0.102	U	
1912-24-9	Atrazine	2	0.102	U	
100-52-7	Benzaldehyde	2	0.102	U	
92-87-5	Benzidine	2	0.409	U	
56-55-3	Benzo(a)anthracene	2	0.102	U	

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID: E70351607.D

Sampled: 11/08/23 15:00 Prepared: 11/16/23 08:12 Analyzed: 11/16/23 23:54

Solids: 81.10 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.102	U	
205-99-2	Benzo(b)fluoranthene	2	0.102	U	
191-24-2	Benzo(g,h,i)perylene	2	0.102	U	
207-08-9	Benzo(k)fluoranthene	2	0.102	U	
65-85-0	Benzoic acid	2	0.102	U	UJ
100-51-6	Benzyl alcohol	2	0.102	U	
85-68-7	Benzyl butyl phthalate	2	0.102	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.102	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.102	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.102	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.102	U	
105-60-2	Caprolactam	2	0.204	U	
86-74-8	Carbazole	2	0.102	U	
218-01-9	Chrysene	2	0.102	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.102	U	
132-64-9	Dibenzofuran	2	0.102	U	
84-66-2	Diethyl phthalate	2	0.102	U	
131-11-3	Dimethyl phthalate	2	0.102	U	
84-74-2	Di-n-butyl phthalate	2	0.102	U	
117-84-0	Di-n-octyl phthalate	2	0.102	U	UJ
122-39-4	Diphenylamine	2	0.204	U	
206-44-0	Fluoranthene	2	0.102	U	
86-73-7	Fluorene	2	0.102	U	
118-74-1	Hexachlorobenzene	2	0.102	U	
87-68-3	Hexachlorobutadiene	2	0.102	U	
77-47-4	Hexachlorocyclopentadiene	2	0.102	U	UJ
67-72-1	Hexachloroethane	2	0.102	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.102	U	
78-59-1	Isophorone	2	0.102	U	
91-20-3	Naphthalene	2	0.102	U	
98-95-3	Nitrobenzene	2	0.102	U	
62-75-9	N-Nitrosodimethylamine	2	0.102	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.102	U	
86-30-6	N-Nitrosodiphenylamine	2	0.102	U	
87-86-5	Pentachlorophenol	2	0.102	U	
85-01-8	Phenanthrene	2	0.102	U	
108-95-2	Phenol	2	0.102	U	
129-00-0	Pyrene	2	0.102	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP4 (27.5-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-08	File ID:	E70351607.D
Sampled:	11/08/23 15:00	Prepared:	11/16/23 08:12	Analyzed:	11/16/23 23:54
Solids:	81.10	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.04	1.05	51.4	20 - 108	
SURR: Phenol-d6	2.04	1.03	50.6	23 - 114	
SURR: Nitrobenzene-d5	1.02	0.511	50.1	22 - 108	
SURR: 2-Fluorobiphenyl	1.02	0.569	55.8	21 - 113	
SURR: 2,4,6-Tribromophenol	2.04	1.32	64.4	19 - 110	
SURR: Terphenyl-d14	1.02	0.601	58.9	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	637043	4.76	543964	4.765	
ISTD: Naphthalene-d8	2631850	5.795	2519517	5.801	
ISTD: Acenaphthene-d10	1509763	7.447	1353643	7.453	
ISTD: Phenanthrene-d10	2589275	9.461	2306245	9.472	
ISTD: Chrysene-d12	2026866	14.051	1732529	14.062	
ISTD: Perylene-d12	1996627	17.041	1702355	17.047	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: SVOA

METHOD: EPA 8270D SIM

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/12/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP3 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-01	File ID:	E800073545.D
Sampled:	11/08/23 11:00	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 01:23
Solids:	91.55	Preparation:	EPA 3550C	Initial/Final:	10.7 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0187	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.467	0.271	58.0	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	167860	9.216	179340	9.215	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP3 (8-12 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-02	File ID:	E800073546.D
Sampled:	11/08/23 11:15	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 01:40
Solids:	92.17	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.252	50.9	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	178896	9.209	179340	9.215	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP3 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-03	File ID:	E800073547.D
Sampled:	11/08/23 11:25	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 01:57
Solids:	84.23	Preparation:	EPA 3550C	Initial/Final:	10.5 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0190	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.476	0.248	52.1	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	175636	9.209	179340	9.215	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	E800073548.D
Sampled:	11/08/23 11:40	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 02:15
Solids:	81.98	Preparation:	EPA 3550C	Initial/Final:	10.4 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0192	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.481	0.274	57.0	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	199790	9.216	179340	9.215	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP4 (0-5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-05	File ID:	E800073549.D
Sampled:	11/08/23 13:30	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 02:32
Solids:	88.63	Preparation:	EPA 3550C	Initial/Final:	10.7 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0187	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.467	0.261	55.9	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	197671	9.209	179340	9.215	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP4 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-06	File ID:	E800073550.D
Sampled:	11/08/23 13:45	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 02:49
Solids:	84.98	Preparation:	EPA 3550C	Initial/Final:	10.5 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0190	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.476	0.294	61.6	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	184658	9.209	179340	9.215	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP4 (14-16 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-07	File ID:	E800073551.D
Sampled:	11/08/23 13:45	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 03:06
Solids:	75.01	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.311	62.9	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	197753	9.216	179340	9.215	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP4 (27.5-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-08	File ID:	E800073552.D
Sampled:	11/08/23 15:00	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 03:24
Solids:	81.10	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.309	62.4	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	198363	9.209	179340	9.215	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
CLASS: PFAS
METHOD: EPA 1633 Draft 3

DATA PACKAGE COVER PAGE

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08
Field Blank	23K0665-09

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/12/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-01	File ID:	QQQ32289.d
Sampled:	11/08/23 11:00	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 14:59
Solids:	91.55	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.192	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.217	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.217	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.198	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.201	J	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	2.38		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.217	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.217	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.217	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.217	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.217	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.217	U	
2355-31-9	N-MeFOSAA	1	0.217	U	
2991-50-6	N-EtFOSAA	1	0.217	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.433	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.217	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.217	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.209	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.824	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.832	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.867	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.386	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.433	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.433	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.433	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.204	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.813	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.867	U	
763051-92-9	11CL-PF3OUdS	1	0.819	U	UJ
756426-58-1	9CL-PF3ONS	1	0.811	U	UJ
919005-14-4	ADONA	1	0.819	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.210	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.208	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.08	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.42	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.42	U	
24448-09-7	N-MeFOSE	1	2.17	U	
31506-32-8	N-MeFOSA	1	0.217	U	
1691-99-2	N-EtFOSE	1	2.17	U	
4151-50-2	N-EtFOSA	1	0.217	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-01	File ID:	QQQ32289.d
Sampled:	11/08/23 11:00	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 14:59
Solids:	91.55	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.10	1.16	55.4	25 - 150	
M5PFHxA	2.26	1.51	66.7	25 - 150	
M4PFHpA	2.26	1.67	73.9	25 - 150	
M3PFHxS	2.14	1.93	90.0	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.26	1.35	59.8	25 - 150	
M6PFDA	1.13	0.751	66.6	25 - 150	
M7PFUdA	1.13	0.662	58.7	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.13	0.545	48.4	25 - 150	
M2PFTeDA	1.13	0.506	44.9	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.05	0.426	4.71	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.16	1.93	89.3	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.51	2.76	61.1	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.26	1.06	46.7	10 - 150	
d3-N-MeFOSAA	4.51	1.22	27.1	25 - 150	
d5-N-EtFOSAA	4.51	1.44	31.9	25 - 150	
M2-6:2 FTS	4.29	1.37	31.9	25 - 200	
M2-8:2 FTS	4.33	2.32	53.5	25 - 200	
M9PFNA	1.13	0.735	65.2	25 - 150	
M2-4:2 FTS	4.24	0.548	12.9	25 - 150	*
d-N-MeFOSA	2.26	0.775	34.3	25 - 150	
d-N-EtFOSA	2.26	1.23	54.3	25 - 150	
M3HFPO-DA	9.05	6.27	69.2	25 - 150	
d9-N-EtFOSE	22.6	22.1	97.8	25 - 150	
d7-N-MeFOSE	22.6	29.5	131	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	31049.41	1.152017	48337.77	1.179567	
MPFDA	16146.01	8.62465	16427.9	8.59685	
MPFHxA	46385.69	5.96495	59678.41	5.93725	
MPFHxS	3656.034	6.898567	4174.848	6.86155	
MPFNA	21838.95	8.096666	24746.62	8.05955	
MPFOA	46109.42	7.483483	54465.89	7.4464	
MPFOS	9685.748	8.132383	10408.1	8.095266	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3155.932	8.1056	6325.578	8.0592	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	20776.27	7.4831	42736	7.446017	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	56252.14	4.34795	161386.4	4.35715	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	6329.803	1.149733	225802.6	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	12686.63	9.475616	34935.41	9.44785	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-01	File ID:	QQQ32289.d
Sampled:	11/08/23 11:00	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 14:59
Solids:	91.55	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3254.942	8.13185	4555.293	8.094733	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	6884.397	9.0546	15307.4	8.999017	
M7PFUdA-EIS	16194.7	9.078383	41788.75	9.050433	
M6PFDA-EIS	11526.81	8.624267	21628.42	8.596467	
M5PFHxA-EIS	38922.68	5.963767	94420.51	5.93605	
M4PFHpA-EIS	5949.606	6.788417	12980.3	6.760733	
M3PFHxS-EIS	7110.724	6.889783	12788.76	6.862017	
M3PFBS-EIS	8010.035	5.141067	21916.86	5.122617	
M3-HFPO-DA-EIS	25608.18	6.2536	66536.72	6.235083	
M2PFTeDA-EIS	6977.434	10.1104	17747.76	10.10117	
M2-8-2FTS-EIS	16188.41	8.5864	25727.14	8.5586	
M2-6-2FTS-EIS	6617.454	7.426717	18199.86	7.389633	
M2-4-2FTS-EIS	3970.886	5.88805	29867.01	5.86935	
d9-NEtFOSE-EIS	4822.783	10.08538	6450.202	10.0485	
d7-NMeFOSE-EIS	12335	9.846117	12180.89	9.799983	
d5-NEtFOSA-EIS	900.7943	10.12578	1911.245	10.0889	
d5-N-EtFOSAA-EIS	8110.451	9.05885	25520.49	9.021533	
d3-NMeFOSA-EIS	844.8608	9.86825	2615.337	9.822117	
d3-N-MeFOSAA-EIS	8819.273	8.82605	39100.91	8.7982	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (8-12 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-02	File ID:	QQQ32290.d
Sampled:	11/08/23 11:15	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 15:17
Solids:	92.17	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.189	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.214	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.214	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.195	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.214	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	1.38		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.214	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.214	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.214	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.214	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.214	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.214	U	
2355-31-9	N-MeFOSAA	1	0.214	U	
2991-50-6	N-EtFOSAA	1	0.214	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.427	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.214	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.214	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.206	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.812	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.820	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.854	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.380	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.427	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.427	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.427	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.201	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.801	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.854	U	
763051-92-9	11CL-PF3OUdS	1	0.807	U	UJ
756426-58-1	9CL-PF3ONS	1	0.799	U	UJ
919005-14-4	ADONA	1	0.807	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.207	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.205	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.07	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.34	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.34	U	
24448-09-7	N-MeFOSE	1	2.14	U	
31506-32-8	N-MeFOSA	1	0.214	U	
1691-99-2	N-EtFOSE	1	2.14	U	
4151-50-2	N-EtFOSA	1	0.214	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (8-12 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-02	File ID:	QQQ32290.d
Sampled:	11/08/23 11:15	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 15:17
Solids:	92.17	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.07	1.94	93.8	25 - 150	
M5PFHxA	2.23	2.67	120	25 - 150	
M4PFHpA	2.23	3.01	135	25 - 150	
M3PFHxS	2.11	3.04	144	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.23	2.38	107	25 - 150	
M6PFDA	1.11	1.28	115	25 - 150	
M7PFUdA	1.11	1.27	115	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.11	1.01	91.0	25 - 150	
M2PFTeDA	1.11	0.892	80.4	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	8.92	2.04	22.8	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.13	2.32	109	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.45	5.87	132	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.23	1.44	64.8	10 - 150	
d3-N-MeFOSAA	4.45	2.92	65.6	25 - 150	
d5-N-EtFOSAA	4.45	3.63	81.5	25 - 150	
M2-6:2 FTS	4.23	3.40	80.4	25 - 200	
M2-8:2 FTS	4.27	5.78	135	25 - 200	
M9PFNA	1.11	1.22	110	25 - 150	
M2-4:2 FTS	4.18	1.54	37.0	25 - 150	
d-N-MeFOSA	2.23	0.771	34.6	25 - 150	
d-N-EtFOSA	2.23	1.34	60.0	25 - 150	
M3HFPO-DA	8.92	8.43	94.5	25 - 150	
d9-N-EtFOSE	22.3	20.8	93.6	25 - 150	
d7-N-MeFOSE	22.3	24.6	111	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	34356.21	1.1612	48337.77	1.179567	
MPFDA	14236.25	8.633917	16427.9	8.59685	
MPFHxA	44493.93	5.983433	59678.41	5.93725	
MPFHxS	2987.205	6.917067	4174.848	6.86155	
MPFNA	20918.46	8.115233	24746.62	8.05955	
MPFOA	43329.93	7.5113	54465.89	7.4464	
MPFOS	9731.88	8.14165	10408.1	8.095266	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5092.209	8.1056	6325.578	8.0592	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34920.65	7.510917	42736	7.446017	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	116781	4.375533	161386.4	4.35715	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	33938.3	1.1589	225802.6	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	21052.08	9.475616	34935.41	9.44785	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (8-12 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-02	File ID:	QQQ32290.d
Sampled:	11/08/23 11:15	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 15:17
Solids:	92.17	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3983.472	8.141117	4555.293	8.094733	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	9586.843	9.073317	15307.4	8.999017	
M7PFUdA-EIS	27874.18	9.078383	41788.75	9.050433	
M6PFDA-EIS	17532.36	8.633533	21628.42	8.596467	
M5PFHxA-EIS	66839.07	5.98225	94420.51	5.93605	
M4PFHpA-EIS	10426.67	6.816683	12980.3	6.760733	
M3PFHxS-EIS	9319.579	6.917533	12788.76	6.862017	
M3PFBS-EIS	11079.13	5.159517	21916.86	5.122617	
M3-HFPO-DA-EIS	33529.56	6.281517	66536.72	6.235083	
M2PFTeDA-EIS	11003.73	10.11962	17747.76	10.10117	
M2-8-2FTS-EIS	33468.21	8.595667	25727.14	8.5586	
M2-6-2FTS-EIS	13628.69	7.445267	18199.86	7.389633	
M2-4-2FTS-EIS	9281.965	5.916383	29867.01	5.86935	
d9-NEtFOSE-EIS	4668.722	10.08538	6450.202	10.0485	
d7-NMeFOSE-EIS	10464.69	9.8369	12180.89	9.799983	
d5-NEtFOSA-EIS	1123.542	10.135	1911.245	10.0889	
d5-N-EtFOSAA-EIS	20855.83	9.05885	25520.49	9.021533	
d3-NMeFOSA-EIS	865.4225	9.86825	2615.337	9.822117	
d3-N-MeFOSAA-EIS	21437.48	8.835333	39100.91	8.7982	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID: QQQ32297.d

Sampled: 11/08/23 11:25 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 17:10

Solids: 84.23 Preparation: EPA 1633 Prep Initial/Final: 5.08 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.207	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.234	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.234	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.214	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.234	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.217	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.234	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.234	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.234	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.234	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.234	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.234	U	
2355-31-9	N-MeFOSAA	1	0.234	U	
2991-50-6	N-EtFOSAA	1	0.234	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.467	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.234	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.234	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.226	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.888	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.897	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.935	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.416	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.467	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.467	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.467	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.220	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.876	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.935	U	
763051-92-9	11CL-PF3OUdS	1	0.883	U	UJ
756426-58-1	9CL-PF3ONS	1	0.874	U	UJ
919005-14-4	ADONA	1	0.883	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.227	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.224	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.17	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.84	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.84	U	
24448-09-7	N-MeFOSE	1	2.34	U	
31506-32-8	N-MeFOSA	1	0.234	U	
1691-99-2	N-EtFOSE	1	2.34	U	
4151-50-2	N-EtFOSA	1	0.234	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-03	File ID:	QQQ32297.d
Sampled:	11/08/23 11:25	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:10
Solids:	84.23	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.27	2.26	99.6	25 - 150	
M5PFHxA	2.44	2.41	98.8	25 - 150	
M4PFHpA	2.44	2.88	118	25 - 150	
M3PFHxS	2.31	3.81	165	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.44	2.69	110	25 - 150	
M6PFDA	1.22	1.62	133	25 - 150	
M7PFUdA	1.22	1.57	129	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.22	1.47	121	25 - 150	
M2PFTeDA	1.22	1.36	112	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.76	0.184	1.89	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.33	2.66	114	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.87	0.401	8.23	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.44	1.81	74.5	10 - 150	
d3-N-MeFOSAA	4.87	4.08	83.9	25 - 150	
d5-N-EtFOSAA	4.87	4.59	94.4	25 - 150	
M2-6:2 FTS	4.63	3.33	72.0	25 - 200	
M2-8:2 FTS	4.67	3.83	81.9	25 - 200	
M9PFNA	1.22	1.45	120	25 - 150	
M2-4:2 FTS	4.57	2.33	50.9	25 - 150	
d-N-MeFOSA	2.44	1.54	63.1	25 - 150	
d-N-EtFOSA	2.44	1.17	48.1	25 - 150	
M3HFPO-DA	9.76	9.66	99.0	25 - 150	
d9-N-EtFOSE	24.4	28.9	118	25 - 150	
d7-N-MeFOSE	24.4	29.8	122	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32829.67	1.152017	47488.91	1.179567	
MPFDA	13363.26	8.62465	17305.89	8.6432	
MPFHxA	44285.99	5.955717	55976.49	5.9742	
MPFHxS	2565.152	6.889317	2914.949	6.907817	
MPFNA	18941.27	8.096666	22521.51	8.10595	
MPFOA	37238.18	7.483483	48136.93	7.49275	
MPFOS	7224.655	8.1231	9591.516	8.14165	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5014.83	8.096316	5777.46	8.1056	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	30954.46	7.4831	40437.81	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	7235.071	4.338767	157637.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2680.098	1.149733	223101.3	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	26200.08	9.46635	35655.95	9.484867	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID: QQQ32297.d

Sampled: 11/08/23 11:25 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 17:10

Solids: 84.23 Preparation: EPA 1633 Prep Initial/Final: 5.08 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3106.618	8.13185	3803.814	8.141117	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8182.145	9.0546	13424.93	9.06405	
M7PFUdA-EIS	29495.59	9.069117	39279.64	9.08765	
M6PFDA-EIS	19038.31	8.624267	21902.39	8.6428	
M5PFHxA-EIS	54917.75	5.954533	84776.16	5.973	
M4PFHpA-EIS	9090.76	6.788417	12998.33	6.80745	
M3PFHxS-EIS	9157.335	6.889783	8854.871	6.908283	
M3PFBS-EIS	10106.69	5.13185	14111.08	5.159517	
M3-HFPO-DA-EIS	34949.55	6.2536	47840.64	6.272117	
M2PFTeDA-EIS	14375.56	10.10117	20294.07	10.11962	
M2-8-2FTS-EIS	17393.41	8.5864	24054.79	8.604934	
M2-6-2FTS-EIS	10535.1	7.41745	9067.75	7.435983	
M2-4-2FTS-EIS	10978.13	5.88805	11727.21	5.90715	
d9-NEtFOSE-EIS	4356.937	10.08538	9803.843	10.0946	
d7-NMeFOSE-EIS	8584.531	9.8369	22926.21	9.846117	
d5-NEtFOSA-EIS	587.0306	10.11655	1842.417	10.135	
d5-N-EtFOSAA-EIS	17924.84	9.049334	27545.07	9.068117	
d3-NMeFOSA-EIS	1170.355	9.86825	2020.969	9.86825	
d3-N-MeFOSAA-EIS	20364.92	8.816767	37989.34	8.835333	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	QQQ32298.d
Sampled:	11/08/23 11:40	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:26
Solids:	81.98	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.214	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.242	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.242	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.221	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.242	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.225	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.242	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.242	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.242	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.242	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.242	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.242	U	
2355-31-9	N-MeFOSAA	1	0.242	U	
2991-50-6	N-EtFOSAA	1	0.242	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.484	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.242	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.242	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.234	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.920	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.929	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.968	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.431	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.484	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.484	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.484	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.227	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.908	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.968	U	
763051-92-9	11CL-PF3OUdS	1	0.915	U	UJ
756426-58-1	9CL-PF3ONS	1	0.905	U	UJ
919005-14-4	ADONA	1	0.915	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.235	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.232	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.21	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.05	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.05	U	
24448-09-7	N-MeFOSE	1	2.42	U	
31506-32-8	N-MeFOSA	1	0.242	U	
1691-99-2	N-EtFOSE	1	2.42	U	
4151-50-2	N-EtFOSA	1	0.242	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	QQQ32298.d
Sampled:	11/08/23 11:40	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:26
Solids:	81.98	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.35	2.43	104	25 - 150	
M5PFHxA	2.52	3.26	129	25 - 150	
M4PFHpA	2.52	3.85	153	25 - 150	*
M3PFHxS	2.39	3.46	145	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.52	2.92	116	25 - 150	
M6PFDA	1.26	1.63	130	25 - 150	
M7PFUdA	1.26	1.77	140	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.26	1.57	125	25 - 150	
M2PFTeDA	1.26	1.27	101	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.1	0.301	2.97	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.41	2.76	114	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.04	1.58	31.3	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.52	2.38	94.5	10 - 150	
d3-N-MeFOSAA	5.04	4.37	86.8	25 - 150	
d5-N-EtFOSAA	5.04	4.39	87.1	25 - 150	
M2-6:2 FTS	4.79	3.24	67.6	25 - 200	
M2-8:2 FTS	4.84	3.46	71.5	25 - 200	
M9PFNA	1.26	1.67	133	25 - 150	
M2-4:2 FTS	4.73	2.65	56.1	25 - 150	
d-N-MeFOSA	2.52	2.11	83.8	25 - 150	
d-N-EtFOSA	2.52	2.37	94.0	25 - 150	
M3HFPO-DA	10.1	14.6	145	25 - 150	
d9-N-EtFOSE	25.2	32.5	129	25 - 150	
d7-N-MeFOSE	25.2	39.7	157	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	35393.04	1.1612	47488.91	1.179567	
MPFDA	13801.72	8.62465	17305.89	8.6432	
MPFHxA	43759.34	5.955717	55976.49	5.9742	
MPFHxS	2830.604	6.889317	2914.949	6.907817	
MPFNA	17902.67	8.096666	22521.51	8.10595	
MPFOA	39771.75	7.483483	48136.93	7.49275	
MPFOS	7929.458	8.132383	9591.516	8.14165	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5271.168	8.096316	5777.46	8.1056	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34722.3	7.4831	40437.81	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	27187.83	4.34795	157637.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	4553.305	1.1589	223101.3	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	27977.45	9.46635	35655.95	9.484867	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	QQQ32298.d
Sampled:	11/08/23 11:40	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:26
Solids:	81.98	Preparation:	EPA 1633 Prep	Initial/Final:	5.04 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3409.435	8.13185	3803.814	8.141117	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11401.55	9.0546	13424.93	9.06405	
M7PFUdA-EIS	33091.82	9.078383	39279.64	9.08765	
M6PFDA-EIS	19180.34	8.624267	21902.39	8.6428	
M5PFHxA-EIS	71030.21	5.954533	84776.16	5.973	
M4PFHpA-EIS	11603.14	6.788417	12998.33	6.80745	
M3PFHxS-EIS	8859.845	6.889783	8854.871	6.908283	
M3PFBS-EIS	11611.57	5.141067	14111.08	5.159517	
M3-HFPO-DA-EIS	50492.36	6.2536	47840.64	6.272117	
M2PFTeDA-EIS	13432.23	10.1104	20294.07	10.11962	
M2-8-2FTS-EIS	16765.7	8.5864	24054.79	8.604934	
M2-6-2FTS-EIS	10896.29	7.41745	9067.75	7.435983	
M2-4-2FTS-EIS	13343.42	5.88805	11727.21	5.90715	
d9-NEtFOSE-EIS	5200.209	10.08538	9803.843	10.0946	
d7-NMeFOSE-EIS	12154.47	9.8369	22926.21	9.846117	
d5-NEtFOSA-EIS	1235.829	10.12578	1842.417	10.135	
d5-N-EtFOSAA-EIS	18150.4	9.049334	27545.07	9.068117	
d3-NMeFOSA-EIS	1705.738	9.86825	2020.969	9.86825	
d3-N-MeFOSAA-EIS	23114.59	8.82605	37989.34	8.835333	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID: QQQ32299.d

Sampled: 11/08/23 13:30 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 17:42

Solids: 88.63 Preparation: EPA 1633 Prep Initial/Final: 5.09 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.196	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.0684	J	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.222	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.203	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.222	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.206	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.222	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.222	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.222	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.222	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.222	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.222	U	
2355-31-9	N-MeFOSAA	1	0.222	U	
2991-50-6	N-EtFOSAA	1	0.222	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.144	J	J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.222	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.222	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.214	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.842	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.851	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.887	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.395	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.443	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.443	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.443	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.208	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.831	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.887	U	
763051-92-9	11CL-PF3OUdS	1	0.838	U	UJ
756426-58-1	9CL-PF3ONS	1	0.829	U	UJ
919005-14-4	ADONA	1	0.838	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.215	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.213	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.11	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.54	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.54	U	
24448-09-7	N-MeFOSE	1	2.22	U	
31506-32-8	N-MeFOSA	1	0.222	U	
1691-99-2	N-EtFOSE	1	2.22	U	
4151-50-2	N-EtFOSA	1	0.222	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (0-5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-05	File ID:	QQQ32299.d
Sampled:	11/08/23 13:30	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:42
Solids:	88.63	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.15	1.32	61.3	25 - 150	
M5PFHxA	2.31	2.38	103	25 - 150	
M4PFHpA	2.31	2.92	126	25 - 150	
M3PFHxS	2.19	2.94	134	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.31	2.47	107	25 - 150	
M6PFDA	1.15	1.29	112	25 - 150	
M7PFUdA	1.15	1.15	99.6	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.15	0.978	84.9	25 - 150	
M2PFTeDA	1.15	0.815	70.7	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.25	0.414	4.47	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.21	2.66	120	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.62	0.519	11.2	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.31	1.79	77.3	10 - 150	
d3-N-MeFOSAA	4.62	2.69	58.3	25 - 150	
d5-N-EtFOSAA	4.62	3.05	66.0	25 - 150	
M2-6:2 FTS	4.39	4.33	98.8	25 - 200	
M2-8:2 FTS	4.43	4.98	112	25 - 200	
M9PFNA	1.15	1.24	108	25 - 150	
M2-4:2 FTS	4.33	2.62	60.6	25 - 150	
d-N-MeFOSA	2.31	1.03	44.5	25 - 150	
d-N-EtFOSA	2.31	1.26	54.7	25 - 150	
M3HFPO-DA	9.25	10.4	112	25 - 150	
d9-N-EtFOSE	23.1	17.1	74.0	25 - 150	
d7-N-MeFOSE	23.1	19.0	82.2	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	30985.75	1.14285	47488.91	1.179567	
MPFDA	15266.77	8.615383	17305.89	8.6432	
MPFHxA	44299.36	5.955717	55976.49	5.9742	
MPFHxS	3791.021	6.88005	2914.949	6.907817	
MPFNA	20117.05	8.0874	22521.51	8.10595	
MPFOA	42058.05	7.474216	48136.93	7.49275	
MPFOS	9607.356	8.1231	9591.516	8.14165	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4807.875	8.087033	5777.46	8.1056	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33871.6	7.473834	40437.81	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	9889.222	4.329566	157637.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	5998.474	1.14055	223101.3	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	21053.44	9.46635	35655.95	9.484867	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (0-5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-05	File ID:	QQQ32299.d
Sampled:	11/08/23 13:30	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:42
Solids:	88.63	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4347.43	8.122566	3803.814	8.141117	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11289.5	9.0546	13424.93	9.06405	
M7PFUdA-EIS	25976.26	9.069117	39279.64	9.08765	
M6PFDA-EIS	18374.52	8.615	21902.39	8.6428	
M5PFHxA-EIS	57470.59	5.954533	84776.16	5.973	
M4PFHpA-EIS	9705.336	6.779183	12998.33	6.80745	
M3PFHxS-EIS	11002.07	6.880533	8854.871	6.908283	
M3PFBS-EIS	9191.034	5.13185	14111.08	5.159517	
M3-HFPO-DA-EIS	39561.67	6.24435	47840.64	6.272117	
M2PFTeDA-EIS	10388.06	10.10117	20294.07	10.11962	
M2-8-2FTS-EIS	35265.89	8.577133	24054.79	8.604934	
M2-6-2FTS-EIS	21333.9	7.408183	9067.75	7.435983	
M2-4-2FTS-EIS	19273.02	5.878817	11727.21	5.90715	
d9-NEtFOSE-EIS	3623.356	10.08538	9803.843	10.0946	
d7-NMeFOSE-EIS	7686.49	9.8369	22926.21	9.846117	
d5-NEtFOSA-EIS	916.5593	10.12578	1842.417	10.135	
d5-N-EtFOSAA-EIS	16670.06	9.049334	27545.07	9.068117	
d3-NMeFOSA-EIS	1097.359	9.86825	2020.969	9.86825	
d3-N-MeFOSAA-EIS	18812.33	8.816767	37989.34	8.835333	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-06	File ID:	QQQ32300.d
Sampled:	11/08/23 13:45	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:58
Solids:	84.98	Preparation:	EPA 1633 Prep	Initial/Final:	5.02 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.207	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.234	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.234	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.214	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.234	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.218	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.234	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.234	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.234	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.234	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.234	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.234	U	
2355-31-9	N-MeFOSAA	1	0.234	U	
2991-50-6	N-EtFOSAA	1	0.234	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.469	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.234	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.234	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.226	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.891	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.900	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.938	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.417	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.469	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.469	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.469	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.220	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.879	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.938	U	
763051-92-9	11CL-PF3OUdS	1	0.886	U	UJ
756426-58-1	9CL-PF3ONS	1	0.877	U	UJ
919005-14-4	ADONA	1	0.886	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.227	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.225	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.17	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.86	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.86	U	
24448-09-7	N-MeFOSE	1	2.34	U	
31506-32-8	N-MeFOSA	1	0.234	U	
1691-99-2	N-EtFOSE	1	2.34	U	
4151-50-2	N-EtFOSA	1	0.234	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: QQQ32300.d

Sampled: 11/08/23 13:45 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 17:58

Solids: 84.98 Preparation: EPA 1633 Prep Initial/Final: 5.02 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.27	2.39	105	25 - 150	
M5PFHxA	2.44	2.69	110	25 - 150	
M4PFHpA	2.44	3.37	138	25 - 150	
M3PFHxS	2.31	3.48	150	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.44	2.64	108	25 - 150	
M6PFDA	1.22	1.67	137	25 - 150	
M7PFUdA	1.22	1.73	142	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.22	1.44	118	25 - 150	
M2PFTeDA	1.22	1.14	93.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.79	0.205	2.09	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.34	2.32	99.3	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.88	0.752	15.4	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.44	1.76	72.0	10 - 150	
d3-N-MeFOSAA	4.88	4.18	85.6	25 - 150	
d5-N-EtFOSAA	4.88	4.69	96.0	25 - 150	
M2-6:2 FTS	4.64	3.43	73.9	25 - 200	
M2-8:2 FTS	4.69	4.79	102	25 - 200	
M9PFNA	1.22	1.34	110	25 - 150	
M2-4:2 FTS	4.58	2.66	58.0	25 - 150	
d-N-MeFOSA	2.44	1.39	56.8	25 - 150	
d-N-EtFOSA	2.44	1.35	55.2	25 - 150	
M3HFPO-DA	9.79	11.0	112	25 - 150	
d9-N-EtFOSE	24.4	17.3	70.9	25 - 150	
d7-N-MeFOSE	24.4	21.1	86.2	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	31381.11	1.14285	47488.91	1.179567	
MPFDA	13087.72	8.615383	17305.89	8.6432	
MPFHxA	42378.52	5.946483	55976.49	5.9742	
MPFHxS	2968.876	6.88005	2914.949	6.907817	
MPFNA	20118.54	8.0874	22521.51	8.10595	
MPFOA	41475.16	7.464933	48136.93	7.49275	
MPFOS	8641.416	8.1231	9591.516	8.14165	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4903.563	8.087033	5777.46	8.1056	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33702.33	7.464567	40437.81	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	12949.6	4.329566	157637.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2839.241	1.149733	223101.3	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	25165.66	9.4571	35655.95	9.484867	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-06	File ID:	QQQ32300.d
Sampled:	11/08/23 13:45	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 17:58
Solids:	84.98	Preparation:	EPA 1633 Prep	Initial/Final:	5.02 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3230.792	8.122566	3803.814	8.141117	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	9461.824	9.045333	13424.93	9.06405	
M7PFUdA-EIS	31801.58	9.069117	39279.64	9.08765	
M6PFDA-EIS	19169.85	8.615	21902.39	8.6428	
M5PFHxA-EIS	58661.95	5.954533	84776.16	5.973	
M4PFHpA-EIS	10143.56	6.779183	12998.33	6.80745	
M3PFHxS-EIS	9643.468	6.880533	8854.871	6.908283	
M3PFBS-EIS	12343.74	5.13185	14111.08	5.159517	
M3-HFPO-DA-EIS	37815.74	6.24435	47840.64	6.272117	
M2PFTeDA-EIS	11730.94	10.10117	20294.07	10.11962	
M2-8-2FTS-EIS	25135.68	8.577133	24054.79	8.604934	
M2-6-2FTS-EIS	12514.81	7.408183	9067.75	7.435983	
M2-4-2FTS-EIS	14463.74	5.878817	11727.21	5.90715	
d9-NEtFOSE-EIS	3121.672	10.08538	9803.843	10.0946	
d7-NMeFOSE-EIS	7259.36	9.8369	22926.21	9.846117	
d5-NEtFOSA-EIS	565.4351	10.12578	1842.417	10.135	
d5-N-EtFOSAA-EIS	21805.48	9.040067	27545.07	9.068117	
d3-NMeFOSA-EIS	1262.839	9.859016	2020.969	9.86825	
d3-N-MeFOSAA-EIS	24848.82	8.816767	37989.34	8.835333	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: QQQ32301.d

Sampled: 11/08/23 13:45 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 18:14

Solids: 75.01 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.235	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.266	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.266	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.243	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.266	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.247	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.266	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.266	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.266	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.266	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.266	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.266	U	
2355-31-9	N-MeFOSAA	1	0.266	U	
2991-50-6	N-EtFOSAA	1	0.266	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.532	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.266	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.266	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.257	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.01	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.02	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.06	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.474	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.532	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.532	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.532	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.250	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.998	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.06	U	
763051-92-9	11CL-PF3OUdS	1	1.01	U	UJ
756426-58-1	9CL-PF3ONS	1	0.995	U	UJ
919005-14-4	ADONA	1	1.01	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.258	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.255	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.33	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.65	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.65	U	
24448-09-7	N-MeFOSE	1	2.66	U	
31506-32-8	N-MeFOSA	1	0.266	U	
1691-99-2	N-EtFOSE	1	2.66	U	
4151-50-2	N-EtFOSA	1	0.266	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (14-16 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-07	File ID:	QQQ32301.d
Sampled:	11/08/23 13:45	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 18:14
Solids:	75.01	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.58	1.82	70.7	25 - 150	
M5PFHxA	2.77	2.87	104	25 - 150	
M4PFHpA	2.77	3.32	120	25 - 150	
M3PFHxS	2.63	4.21	160	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.77	3.42	123	25 - 150	
M6PFDA	1.38	1.92	138	25 - 150	
M7PFUdA	1.38	1.77	128	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.38	1.54	111	25 - 150	
M2PFTeDA	1.38	1.28	92.3	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	11.1	0.223	2.01	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.65	3.73	140	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.54	0.325	5.87	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.77	2.51	90.5	10 - 150	
d3-N-MeFOSAA	5.54	5.58	101	25 - 150	
d5-N-EtFOSAA	5.54	5.61	101	25 - 150	
M2-6:2 FTS	5.27	9.46	180	25 - 200	
M2-8:2 FTS	5.32	9.87	185	25 - 200	
M9PFNA	1.38	1.76	127	25 - 150	
M2-4:2 FTS	5.20	3.96	76.2	25 - 150	
d-N-MeFOSA	2.77	1.41	50.8	25 - 150	
d-N-EtFOSA	2.77	1.44	52.0	25 - 150	
M3HFPO-DA	11.1	11.8	106	25 - 150	
d9-N-EtFOSE	27.7	21.5	77.6	25 - 150	
d7-N-MeFOSE	27.7	24.5	88.4	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	33395.37	1.1612	47488.91	1.179567	
MPFDA	12205.65	8.62465	17305.89	8.6432	
MPFHxA	44071.84	5.946483	55976.49	5.9742	
MPFHxS	3820.333	6.8708	2914.949	6.907817	
MPFNA	18265.66	8.0874	22521.51	8.10595	
MPFOA	40153.11	7.464933	48136.93	7.49275	
MPFOS	9103.059	8.1231	9591.516	8.14165	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5150.214	8.087033	5777.46	8.1056	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	37237.78	7.464567	40437.81	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	5132.17	4.329566	157637.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2897.923	1.1589	223101.3	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	22074.92	9.484867	35655.95	9.484867	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (14-16 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-07	File ID:	QQQ32301.d
Sampled:	11/08/23 13:45	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 18:14
Solids:	75.01	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4808.701	8.122566	3803.814	8.141117	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12535.07	9.06405	13424.93	9.06405	
M7PFUdA-EIS	26654.96	9.08765	39279.64	9.08765	
M6PFDA-EIS	18102.34	8.624267	21902.39	8.6428	
M5PFHxA-EIS	57398.98	5.9453	84776.16	5.973	
M4PFHpA-EIS	9153.067	6.76995	12998.33	6.80745	
M3PFHxS-EIS	13226.74	6.871267	8854.871	6.908283	
M3PFBS-EIS	10706.8	5.122617	14111.08	5.159517	
M3-HFPO-DA-EIS	37276.2	6.235083	47840.64	6.272117	
M2PFTeDA-EIS	10834.54	10.12883	20294.07	10.11962	
M2-8-2FTS-EIS	58629.81	8.5864	24054.79	8.604934	
M2-6-2FTS-EIS	39049.11	7.3989	9067.75	7.435983	
M2-4-2FTS-EIS	24562.45	5.86935	11727.21	5.90715	
d9-NEtFOSE-EIS	3586.705	10.11303	9803.843	10.0946	
d7-NMeFOSE-EIS	7886.999	9.864583	22926.21	9.846117	
d5-NEtFOSA-EIS	797.2234	10.15343	1842.417	10.135	
d5-N-EtFOSAA-EIS	24119.89	9.05885	27545.07	9.068117	
d3-NMeFOSA-EIS	1194.911	9.895933	2020.969	9.86825	
d3-N-MeFOSAA-EIS	30761.69	8.82605	37989.34	8.835333	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (27.5-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-08	File ID:	QQQ32302.d
Sampled:	11/08/23 15:00	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 18:30
Solids:	81.10	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.215	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.243	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.243	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.223	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.243	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.226	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.243	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.243	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.243	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.243	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.243	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.243	U	
2355-31-9	N-MeFOSAA	1	0.243	U	
2991-50-6	N-EtFOSAA	1	0.243	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.486	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.243	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.243	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.235	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.924	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.934	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.973	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.433	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.486	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.486	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.486	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.229	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.912	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.973	U	
763051-92-9	11CL-PF3OUdS	1	0.919	U	UJ
756426-58-1	9CL-PF3ONS	1	0.910	U	UJ
919005-14-4	ADONA	1	0.919	U	UJ
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.236	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.233	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.22	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.08	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.08	U	
24448-09-7	N-MeFOSE	1	2.43	U	
31506-32-8	N-MeFOSA	1	0.243	U	
1691-99-2	N-EtFOSE	1	2.43	U	
4151-50-2	N-EtFOSA	1	0.243	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (27.5-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-08	File ID:	QQQ32302.d
Sampled:	11/08/23 15:00	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 18:30
Solids:	81.10	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.36	1.08	46.0	25 - 150	
M5PFHxA	2.54	2.20	86.8	25 - 150	
M4PFHpA	2.54	3.53	139	25 - 150	
M3PFHxS	2.40	3.33	138	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.54	2.81	111	25 - 150	
M6PFDA	1.26	1.50	119	25 - 150	
M7PFUdA	1.26	1.47	117	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.26	1.26	99.5	25 - 150	
M2PFTeDA	1.26	0.971	76.8	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.2	0.149	1.47	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.43	2.51	103	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.06	0.144	2.85	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.54	2.32	91.5	10 - 150	
d3-N-MeFOSAA	5.06	4.75	93.7	25 - 150	
d5-N-EtFOSAA	5.06	4.33	85.4	25 - 150	
M2-6:2 FTS	4.82	3.84	79.7	25 - 200	
M2-8:2 FTS	4.86	3.82	78.6	25 - 200	
M9PFNA	1.26	1.50	118	25 - 150	
M2-4:2 FTS	4.75	2.33	49.1	25 - 150	
d-N-MeFOSA	2.54	1.50	59.3	25 - 150	
d-N-EtFOSA	2.54	1.34	52.7	25 - 150	
M3HFPO-DA	10.2	8.56	84.3	25 - 150	
d9-N-EtFOSE	25.4	17.8	70.1	25 - 150	
d7-N-MeFOSE	25.4	18.6	73.4	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	33961.43	1.14285	47488.91	1.179567	
MPFDA	13836.11	8.615383	17305.89	8.6432	
MPFHxA	45593.54	5.946483	55976.49	5.9742	
MPFHxS	3388.969	6.88005	2914.949	6.907817	
MPFNA	19836.84	8.0874	22521.51	8.10595	
MPFOA	43148.94	7.474216	48136.93	7.49275	
MPFOS	8657.595	8.1231	9591.516	8.14165	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5207.723	8.087033	5777.46	8.1056	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	36073.55	7.473834	40437.81	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	2578.357	4.320384	157637.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2161.728	1.14055	223101.3	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	22371.87	9.484867	35655.95	9.484867	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP4 (27.5-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-08	File ID:	QQQ32302.d
Sampled:	11/08/23 15:00	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 18:30
Solids:	81.10	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3371.317	8.122566	3803.814	8.141117	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12009.55	9.06405	13424.93	9.06405	
M7PFUdA-EIS	27542.69	9.08765	39279.64	9.08765	
M6PFDA-EIS	17618.54	8.624267	21902.39	8.6428	
M5PFHxA-EIS	49790.96	5.954533	84776.16	5.973	
M4PFHpA-EIS	11016.19	6.779183	12998.33	6.80745	
M3PFHxS-EIS	10145.21	6.880533	8854.871	6.908283	
M3PFBS-EIS	6163.356	5.122617	14111.08	5.159517	
M3-HFPO-DA-EIS	30652.87	6.24435	47840.64	6.272117	
M2PFTeDA-EIS	10223.39	10.13805	20294.07	10.11962	
M2-8-2FTS-EIS	22044.3	8.5864	24054.79	8.604934	
M2-6-2FTS-EIS	15396.33	7.408183	9067.75	7.435983	
M2-4-2FTS-EIS	13978.26	5.878817	11727.21	5.90715	
d9-NEtFOSE-EIS	3030.449	10.12225	9803.843	10.0946	
d7-NMeFOSE-EIS	6152.288	9.873816	22926.21	9.846117	
d5-NEtFOSA-EIS	782.4971	10.16222	1842.417	10.135	
d5-N-EtFOSAA-EIS	19433.27	9.05885	27545.07	9.068117	
d3-NMeFOSA-EIS	1317.277	9.905167	2020.969	9.86825	
d3-N-MeFOSAA-EIS	27241.48	8.82605	37989.34	8.835333	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0665-09 File ID: QQQ32309.d

Sampled: 11/08/23 15:00 Prepared: 11/17/23 14:46 Analyzed: 11/17/23 20:40

Solids: Preparation: EPA 1633 Prep Initial/Final: 550.59 mL / 5 mL

Batch: BK31179 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.61	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	1.82	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	1.82	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.66	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	1.82	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	1.69	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	1.82	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	1.82	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.82	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.82	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.82	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.82	U	
2355-31-9	N-MeFOSAA	1	1.82	U	
2991-50-6	N-EtFOSAA	1	1.82	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	3.63	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.82	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.73	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.75	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	6.90	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	6.97	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	7.26	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.23	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.63	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.63	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.63	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.71	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	6.81	U	
13252-13-6	HFPO-DA (Gen-X)	1	7.26	U	
763051-92-9	11CL-PF3OUdS	1	6.87	U	UJ
756426-58-1	9CL-PF3ONS	1	6.79	U	UJ
919005-14-4	ADONA	1	6.87	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.76	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.74	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.54	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	22.7	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	22.7	U	
24448-09-7	N-MeFOSE	1	18.2	U	
31506-32-8	N-MeFOSA	1	1.82	U	
1691-99-2	N-EtFOSE	1	18.2	U	
4151-50-2	N-EtFOSA	1	1.82	U	UJ

MKP 2/1/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0665-09 File ID: QQQ32309.d

Sampled: 11/08/23 15:00 Prepared: 11/17/23 14:46 Analyzed: 11/17/23 20:40

Solids: Preparation: EPA 1633 Prep Initial/Final: 550.59 mL / 5 mL

Batch: BK31179 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	21.2	19.4	91.6	25 - 150	
M5PFHxA	22.7	19.8	87.0	25 - 150	
M4PFHpA	22.7	25.6	113	25 - 150	
M3PFHxS	21.5	27.2	126	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	22.7	21.0	92.6	25 - 150	
M6PFDA	11.4	12.0	105	25 - 150	
M7PFUdA	11.4	12.5	110	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	11.4	10.9	95.7	25 - 150	
M2PFTeDA	11.4	6.16	54.3	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	90.8	0.513	0.565	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	21.7	20.0	92.0	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	45.4	5.79	12.8	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	22.7	18.2	80.3	10 - 150	
d3-N-MeFOSAA	45.4	28.1	61.9	25 - 150	
d5-N-EtFOSAA	45.4	28.5	62.8	25 - 150	
M2-6:2 FTS	43.2	26.0	60.2	25 - 200	
M2-8:2 FTS	43.6	27.8	63.8	25 - 200	
M9PFNA	11.4	12.0	106	25 - 150	
M2-4:2 FTS	42.6	23.9	56.1	25 - 150	
d-N-MeFOSA	22.7	15.6	68.5	25 - 150	
d-N-EtFOSA	22.7	12.9	56.7	25 - 150	
M3HFPO-DA	90.8	89.1	98.1	25 - 150	
d9-N-EtFOSE	227	80.5	35.5	25 - 150	
d7-N-MeFOSE	227	103	45.3	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32338.17	1.1612	43695.77	1.179567	
MPFDA	12853.33	8.633917	16461.22	8.615383	
MPFHxA	44225.5	5.955717	54537.7	5.96495	
MPFHxS	2936.607	6.889317	3538.103	6.8708	
MPFNA	18527.31	8.096666	22527.11	8.0874	
MPFOA	39114.8	7.483483	53063.69	7.464933	
MPFOS	8236.605	8.132383	10884.97	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5212.124	8.096316	6321.729	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	32699.21	7.4831	40310.45	7.464567	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	13459.14	4.34795	153042.6	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	945.9637	1.1589	212423.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	24032.73	9.503366	34990.75	9.46635	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

Field Blank

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Water	Laboratory ID:	23K0665-09	File ID:	QQQ32309.d
Sampled:	11/08/23 15:00	Prepared:	11/17/23 14:46	Analyzed:	11/17/23 20:40
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	550.59 mL / 5 mL
Batch:	BK31179	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3422.526	8.13185	3972.023	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12059.73	9.073317	15472.03	9.0546	
M7PFUdA-EIS	28956.42	9.096867	40576.09	9.069117	
M6PFDA-EIS	17459.54	8.633533	23636.04	8.615	
M5PFHxA-EIS	58032.79	5.954533	87203.55	5.963767	
M4PFHpA-EIS	10395.55	6.788417	12563.34	6.76995	
M3PFHxS-EIS	9635.901	6.889783	12133.37	6.871267	
M3PFBS-EIS	12774.43	5.13185	19113.85	5.1503	
M3-HFPO-DA-EIS	41440.38	6.2536	60573.57	6.2536	
M2PFTeDA-EIS	8070.396	10.15658	19432.97	10.11962	
M2-8-2FTS-EIS	18612.25	8.595667	24899.65	8.577133	
M2-6-2FTS-EIS	12098.36	7.41745	15309.1	7.408183	
M2-4-2FTS-EIS	16607.05	5.88805	24197.74	5.88805	
d9-NEtFOSE-EIS	1783.988	10.13147	7106.948	10.0946	
d7-NMeFOSE-EIS	4348.271	9.873816	14891	9.846117	
d5-NEtFOSA-EIS	945.2776	10.17143	244.5576	9.950684	
d5-N-EtFOSAA-EIS	16314.6	9.077383	26645.56	9.049334	
d3-NMeFOSA-EIS	1740.424	9.905167	2626.271	9.877483	
d3-N-MeFOSAA-EIS	20550.34	8.835333	35533.96	8.816767	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: PEST

METHOD: EPA 8081B

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/13/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID: P600426320.D

Sampled: 11/08/23 11:00 Prepared: 11/16/23 08:29 Analyzed: 11/16/23 21:37

Solids: 91.55 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31064 Sequence: S3K1651 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.80	U
72-55-9	4,4'-DDE	5	1.80	U
50-29-3	4,4'-DDT	5	4.94	D
309-00-2	Aldrin	5	1.80	U
319-84-6	alpha-BHC	5	1.80	U
5103-71-9	alpha-Chlordane	5	1.80	U
319-85-7	beta-BHC	5	1.80	U
57-74-9	Chlordane, total	5	35.9	U
319-86-8	delta-BHC	5	1.80	U
60-57-1	Dieldrin	5	1.80	U
959-98-8	Endosulfan I	5	1.80	U
33213-65-9	Endosulfan II	5	1.80	U
1031-07-8	Endosulfan sulfate	5	1.80	U
72-20-8	Endrin	5	1.80	U
7421-93-4	Endrin aldehyde	5	1.80	U
53494-70-5	Endrin ketone	5	1.80	U
58-89-9	gamma-BHC (Lindane)	5	1.80	U
5566-34-7	gamma-Chlordane	5	1.80	U
76-44-8	Heptachlor	5	1.80	U
1024-57-3	Heptachlor epoxide	5	1.80	U
72-43-5	Methoxychlor	5	8.98	U
8001-35-2	Toxaphene	5	90.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	72.6	47.0	64.8	30 - 150	
Tetrachloro-m-xylene	72.6	53.5	73.7	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP3 (8-12 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-02	File ID:	P600426321.D
Sampled:	11/08/23 11:15	Prepared:	11/16/23 08:29	Analyzed:	11/16/23 21:58
Solids:	92.17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1651	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.78	U
72-55-9	4,4'-DDE	5	1.78	U
50-29-3	4,4'-DDT	5	1.78	U
309-00-2	Aldrin	5	1.78	U
319-84-6	alpha-BHC	5	1.78	U
5103-71-9	alpha-Chlordane	5	1.78	U
319-85-7	beta-BHC	5	1.78	U
57-74-9	Chlordane, total	5	35.7	U
319-86-8	delta-BHC	5	1.78	U
60-57-1	Dieldrin	5	1.78	U
959-98-8	Endosulfan I	5	1.78	U
33213-65-9	Endosulfan II	5	1.78	U
1031-07-8	Endosulfan sulfate	5	1.78	U
72-20-8	Endrin	5	1.78	U
7421-93-4	Endrin aldehyde	5	1.78	U
53494-70-5	Endrin ketone	5	1.78	U
58-89-9	gamma-BHC (Lindane)	5	1.78	U
5566-34-7	gamma-Chlordane	5	1.78	U
76-44-8	Heptachlor	5	1.78	U
1024-57-3	Heptachlor epoxide	5	1.78	U
72-43-5	Methoxychlor	5	8.92	U
8001-35-2	Toxaphene	5	90.3	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	72.1	49.9	69.2	30 - 150	
Tetrachloro-m-xylene	72.1	49.4	68.5	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP3 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-03	File ID:	P600426322.D
Sampled:	11/08/23 11:25	Prepared:	11/16/23 08:29	Analyzed:	11/16/23 22:20
Solids:	84.23	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1651	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.95	U
72-55-9	4,4'-DDE	5	1.95	U
50-29-3	4,4'-DDT	5	1.95	U
309-00-2	Aldrin	5	1.95	U
319-84-6	alpha-BHC	5	1.95	U
5103-71-9	alpha-Chlordane	5	1.95	U
319-85-7	beta-BHC	5	1.95	U
57-74-9	Chlordane, total	5	39.0	U
319-86-8	delta-BHC	5	1.95	U
60-57-1	Dieldrin	5	1.95	U
959-98-8	Endosulfan I	5	1.95	U
33213-65-9	Endosulfan II	5	1.95	U
1031-07-8	Endosulfan sulfate	5	1.95	U
72-20-8	Endrin	5	1.95	U
7421-93-4	Endrin aldehyde	5	1.95	U
53494-70-5	Endrin ketone	5	1.95	U
58-89-9	gamma-BHC (Lindane)	5	1.95	U
5566-34-7	gamma-Chlordane	5	1.95	U
76-44-8	Heptachlor	5	1.95	U
1024-57-3	Heptachlor epoxide	5	1.95	U
72-43-5	Methoxychlor	5	9.76	U
8001-35-2	Toxaphene	5	98.8	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	78.9	52.1	66.0	30 - 150	
Tetrachloro-m-xylene	78.9	56.4	71.5	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	P600426325.D
Sampled:	11/08/23 11:40	Prepared:	11/16/23 08:29	Analyzed:	11/16/23 23:26
Solids:	81.98	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BK31064	Sequence:	S3K1651	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.95	U
72-55-9	4,4'-DDE	5	1.95	U
50-29-3	4,4'-DDT	5	1.95	U
309-00-2	Aldrin	5	1.95	U
319-84-6	alpha-BHC	5	1.95	U
5103-71-9	alpha-Chlordane	5	1.95	U
319-85-7	beta-BHC	5	1.95	U
57-74-9	Chlordane, total	5	39.1	U
319-86-8	delta-BHC	5	1.95	U
60-57-1	Dieldrin	5	1.95	U
959-98-8	Endosulfan I	5	1.95	U
33213-65-9	Endosulfan II	5	1.95	U
1031-07-8	Endosulfan sulfate	5	1.95	U
72-20-8	Endrin	5	1.95	U
7421-93-4	Endrin aldehyde	5	1.95	U
53494-70-5	Endrin ketone	5	1.95	U
58-89-9	gamma-BHC (Lindane)	5	1.95	U
5566-34-7	gamma-Chlordane	5	1.95	U
76-44-8	Heptachlor	5	1.95	U
1024-57-3	Heptachlor epoxide	5	1.95	U
72-43-5	Methoxychlor	5	9.77	U
8001-35-2	Toxaphene	5	98.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	78.9	81.2	103	30 - 150	
Tetrachloro-m-xylene	78.9	64.4	81.6	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID: P600426326.D

Sampled: 11/08/23 13:30 Prepared: 11/16/23 08:29 Analyzed: 11/16/23 23:47

Solids: 88.63 Preparation: EPA 3550C Initial/Final: 30.9 g / 10 mL

Batch: BK31064 Sequence: S3K1651 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.81	U
72-55-9	4,4'-DDE	5	1.81	U
50-29-3	4,4'-DDT	5	1.81	U
309-00-2	Aldrin	5	1.81	U
319-84-6	alpha-BHC	5	1.81	U
5103-71-9	alpha-Chlordane	5	1.81	U
319-85-7	beta-BHC	5	1.81	U
57-74-9	Chlordane, total	5	36.1	U
319-86-8	delta-BHC	5	1.81	U
60-57-1	Dieldrin	5	1.81	U
959-98-8	Endosulfan I	5	1.81	U
33213-65-9	Endosulfan II	5	1.81	U
1031-07-8	Endosulfan sulfate	5	1.81	U
72-20-8	Endrin	5	1.81	U
7421-93-4	Endrin aldehyde	5	1.81	U
53494-70-5	Endrin ketone	5	1.81	U
58-89-9	gamma-BHC (Lindane)	5	1.81	U
5566-34-7	gamma-Chlordane	5	1.81	U
76-44-8	Heptachlor	5	1.81	U
1024-57-3	Heptachlor epoxide	5	1.81	U
72-43-5	Methoxychlor	5	9.04	U
8001-35-2	Toxaphene	5	91.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	73.0	58.4	80.0	30 - 150	
Tetrachloro-m-xylene	73.0	53.3	72.9	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: P600426327.D

Sampled: 11/08/23 13:45 Prepared: 11/16/23 08:29 Analyzed: 11/17/23 00:09

Solids: 84.98 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31064 Sequence: S3K1651 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.94	U
72-55-9	4,4'-DDE	5	1.94	U
50-29-3	4,4'-DDT	5	1.94	U
309-00-2	Aldrin	5	1.94	U
319-84-6	alpha-BHC	5	1.94	U
5103-71-9	alpha-Chlordane	5	1.94	U
319-85-7	beta-BHC	5	1.94	U
57-74-9	Chlordane, total	5	38.7	U
319-86-8	delta-BHC	5	1.94	U
60-57-1	Dieldrin	5	1.94	U
959-98-8	Endosulfan I	5	1.94	U
33213-65-9	Endosulfan II	5	1.94	U
1031-07-8	Endosulfan sulfate	5	1.94	U
72-20-8	Endrin	5	1.94	U
7421-93-4	Endrin aldehyde	5	1.94	U
53494-70-5	Endrin ketone	5	1.94	U
58-89-9	gamma-BHC (Lindane)	5	1.94	U
5566-34-7	gamma-Chlordane	5	1.94	U
76-44-8	Heptachlor	5	1.94	U
1024-57-3	Heptachlor epoxide	5	1.94	U
72-43-5	Methoxychlor	5	9.68	U
8001-35-2	Toxaphene	5	97.9	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	78.2	49.3	63.1	30 - 150	
Tetrachloro-m-xylene	78.2	44.3	56.7	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP4 (14-16 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-07	File ID:	P600426328.D
Sampled:	11/08/23 13:45	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 00:31
Solids:	75.01	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1651	Calibration:	SJ30007
Instrument:	GCECD6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.19	U
72-55-9	4,4'-DDE	5	2.19	U
50-29-3	4,4'-DDT	5	2.19	U
309-00-2	Aldrin	5	2.19	U
319-84-6	alpha-BHC	5	2.19	U
5103-71-9	alpha-Chlordane	5	2.19	U
319-85-7	beta-BHC	5	2.19	U
57-74-9	Chlordane, total	5	43.8	U
319-86-8	delta-BHC	5	2.19	U
60-57-1	Dieldrin	5	2.19	U
959-98-8	Endosulfan I	5	2.19	U
33213-65-9	Endosulfan II	5	2.19	U
1031-07-8	Endosulfan sulfate	5	2.19	U
72-20-8	Endrin	5	2.19	U
7421-93-4	Endrin aldehyde	5	2.19	U
53494-70-5	Endrin ketone	5	2.19	U
58-89-9	gamma-BHC (Lindane)	5	2.19	U
5566-34-7	gamma-Chlordane	5	2.19	U
76-44-8	Heptachlor	5	2.19	U
1024-57-3	Heptachlor epoxide	5	2.19	U
72-43-5	Methoxychlor	5	11.0	U
8001-35-2	Toxaphene	5	111	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	88.6	77.1	87.1	30 - 150	
Tetrachloro-m-xylene	88.6	62.3	70.3	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID: P600426329.D

Sampled: 11/08/23 15:00 Prepared: 11/16/23 08:29 Analyzed: 11/17/23 00:52

Solids: 81.10 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31064 Sequence: S3K1651 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.03	U
72-55-9	4,4'-DDE	5	2.03	U
50-29-3	4,4'-DDT	5	2.03	U
309-00-2	Aldrin	5	2.03	U
319-84-6	alpha-BHC	5	2.03	U
5103-71-9	alpha-Chlordane	5	2.03	U
319-85-7	beta-BHC	5	2.03	U
57-74-9	Chlordane, total	5	40.6	U
319-86-8	delta-BHC	5	2.03	U
60-57-1	Dieldrin	5	2.03	U
959-98-8	Endosulfan I	5	2.03	U
33213-65-9	Endosulfan II	5	2.03	U
1031-07-8	Endosulfan sulfate	5	2.03	U
72-20-8	Endrin	5	2.03	U
7421-93-4	Endrin aldehyde	5	2.03	U
53494-70-5	Endrin ketone	5	2.03	U
58-89-9	gamma-BHC (Lindane)	5	2.03	U
5566-34-7	gamma-Chlordane	5	2.03	U
76-44-8	Heptachlor	5	2.03	U
1024-57-3	Heptachlor epoxide	5	2.03	U
72-43-5	Methoxychlor	5	10.1	U
8001-35-2	Toxaphene	5	103	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	81.9	81.3	99.3	30 - 150	
Tetrachloro-m-xylene	81.9	65.3	79.8	30 - 150	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: ARO

METHOD: EPA 8082A

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP3 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-01	File ID:	P1133507.D
Sampled:	11/08/23 11:00	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 09:16
Solids:	91.55	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0181	U
11104-28-2	Aroclor 1221	1	0.0181	U
11141-16-5	Aroclor 1232	1	0.0181	U
53469-21-9	Aroclor 1242	1	0.0181	U
12672-29-6	Aroclor 1248	1	0.0181	U
11097-69-1	Aroclor 1254	1	0.0181	U
11096-82-5	Aroclor 1260	1	0.0181	U
1336-36-3	Total PCBs	1	0.0181	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0726	0.0504	69.5	30 - 140	
Decachlorobiphenyl	0.0726	0.0555	76.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP3 (8-12 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-02	File ID:	P1133508.D
Sampled:	11/08/23 11:15	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 09:30
Solids:	92.17	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0180	U
11104-28-2	Aroclor 1221	1	0.0180	U
11141-16-5	Aroclor 1232	1	0.0180	U
53469-21-9	Aroclor 1242	1	0.0180	U
12672-29-6	Aroclor 1248	1	0.0180	U
11097-69-1	Aroclor 1254	1	0.0180	U
11096-82-5	Aroclor 1260	1	0.0180	U
1336-36-3	Total PCBs	1	0.0180	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0721	0.0483	67.0	30 - 140	
Decachlorobiphenyl	0.0721	0.0533	74.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP3 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-03	File ID:	P1133509.D
Sampled:	11/08/23 11:25	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 09:43
Solids:	84.23	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0197	U
11104-28-2	Aroclor 1221	1	0.0197	U
11141-16-5	Aroclor 1232	1	0.0197	U
53469-21-9	Aroclor 1242	1	0.0197	U
12672-29-6	Aroclor 1248	1	0.0197	U
11097-69-1	Aroclor 1254	1	0.0197	U
11096-82-5	Aroclor 1260	1	0.0197	U
1336-36-3	Total PCBs	1	0.0197	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0789	0.0450	57.0	30 - 140	
Decachlorobiphenyl	0.0789	0.0525	66.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	P1133510.D
Sampled:	11/08/23 11:40	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 09:57
Solids:	81.98	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0197	U
11104-28-2	Aroclor 1221	1	0.0197	U
11141-16-5	Aroclor 1232	1	0.0197	U
53469-21-9	Aroclor 1242	1	0.0197	U
12672-29-6	Aroclor 1248	1	0.0197	U
11097-69-1	Aroclor 1254	1	0.0197	U
11096-82-5	Aroclor 1260	1	0.0197	U
1336-36-3	Total PCBs	1	0.0197	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0789	0.0632	80.0	30 - 140	
Decachlorobiphenyl	0.0789	0.0750	95.0	30 - 140	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP4 (0-5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-05	File ID:	P1133511.D
Sampled:	11/08/23 13:30	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 10:11
Solids:	88.63	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0183	U
11104-28-2	Aroclor 1221	1	0.0183	U
11141-16-5	Aroclor 1232	1	0.0183	U
53469-21-9	Aroclor 1242	1	0.0183	U
12672-29-6	Aroclor 1248	1	0.0183	U
11097-69-1	Aroclor 1254	1	0.0183	U
11096-82-5	Aroclor 1260	1	0.0183	U
1336-36-3	Total PCBs	1	0.0183	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0730	0.0497	68.0	30 - 140	
Decachlorobiphenyl	0.0730	0.0566	77.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP4 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-06	File ID:	P1133512.D
Sampled:	11/08/23 13:45	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 10:25
Solids:	84.98	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0195	U
11104-28-2	Aroclor 1221	1	0.0195	U
11141-16-5	Aroclor 1232	1	0.0195	U
53469-21-9	Aroclor 1242	1	0.0195	U
12672-29-6	Aroclor 1248	1	0.0195	U
11097-69-1	Aroclor 1254	1	0.0195	U
11096-82-5	Aroclor 1260	1	0.0195	U
1336-36-3	Total PCBs	1	0.0195	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0782	0.0422	54.0	30 - 140	
Decachlorobiphenyl	0.0782	0.0516	66.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP4 (14-16 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-07	File ID:	P1133513.D
Sampled:	11/08/23 13:45	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 10:38
Solids:	75.01	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0221	U
11104-28-2	Aroclor 1221	1	0.0221	U
11141-16-5	Aroclor 1232	1	0.0221	U
53469-21-9	Aroclor 1242	1	0.0221	U
12672-29-6	Aroclor 1248	1	0.0221	U
11097-69-1	Aroclor 1254	1	0.0221	U
11096-82-5	Aroclor 1260	1	0.0221	U
1336-36-3	Total PCBs	1	0.0221	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0886	0.0638	72.0	30 - 140	
Decachlorobiphenyl	0.0886	0.0788	89.0	30 - 140	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP4 (27.5-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-08	File ID:	P1133514.D
Sampled:	11/08/23 15:00	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 10:52
Solids:	81.10	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0205	U
11104-28-2	Aroclor 1221	1	0.0205	U
11141-16-5	Aroclor 1232	1	0.0205	U
53469-21-9	Aroclor 1242	1	0.0205	U
12672-29-6	Aroclor 1248	1	0.0205	U
11097-69-1	Aroclor 1254	1	0.0205	U
11096-82-5	Aroclor 1260	1	0.0205	U
1336-36-3	Total PCBs	1	0.0205	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0819	0.0651	79.5	30 - 140	
Decachlorobiphenyl	0.0819	0.0791	96.5	30 - 140	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: METALS

METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/13/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID: QBICP2-111523ARE_1-123

Sampled: 11/08/23 11:00 Prepared: 11/09/23 21:43 Analyzed: 11/15/23 18:52

Solids: 91.55 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30664 Sequence: S3K1604 Calibration: 11/15/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	8350	1		EPA 6010D	
7440-36-0	Antimony	2.28	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	3.80	1		EPA 6010D	
7440-39-3	Barium	478	1		EPA 6010D	J+
7440-41-7	Beryllium	0.046	1	U	EPA 6010D	
7440-43-9	Cadmium	0.273	1	U	EPA 6010D	
7440-70-2	Calcium	47900	1	B	EPA 6010D	
7440-47-3	Chromium	18.2	1		EPA 6010D	
7440-48-4	Cobalt	5.02	1		EPA 6010D	
7440-50-8	Copper	52.4	1		EPA 6010D	
7439-89-6	Iron	12600	1		EPA 6010D	
7439-92-1	Lead	73.4	1		EPA 6010D	
7439-95-4	Magnesium	4880	1		EPA 6010D	
7439-96-5	Manganese	216	1		EPA 6010D	
7440-02-0	Nickel	14.6	1		EPA 6010D	
7440-09-7	Potassium	1320	1		EPA 6010D	
7782-49-2	Selenium	2.42	1		EPA 6010D	
7440-22-4	Silver	0.459	1	U	EPA 6010D	UJ
7440-23-5	Sodium	1500	1		EPA 6010D	J+
7440-28-0	Thallium	2.28	1	U	EPA 6010D	
7440-62-2	Vanadium	48.8	1		EPA 6010D	
7440-66-6	Zinc	41.8	1		EPA 6010D	J+

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EPA 6010D

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID: QBICP2-111623BRE_1-072

Sampled: 11/08/23 11:15 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 16:47

Solids: 92.17 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	6830	1		EPA 6010D	
7440-36-0	Antimony	2.26	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	5.00	1		EPA 6010D	
7440-39-3	Barium	200	1		EPA 6010D	
7440-41-7	Beryllium	0.046	1	U	EPA 6010D	
7440-43-9	Cadmium	0.271	1	U	EPA 6010D	
7440-70-2	Calcium	30500	1	B	EPA 6010D	
7440-47-3	Chromium	16.6	1		EPA 6010D	
7440-48-4	Cobalt	6.02	1		EPA 6010D	
7440-50-8	Copper	53.9	1		EPA 6010D	
7439-89-6	Iron	16000	1		EPA 6010D	
7439-92-1	Lead	186	1		EPA 6010D	
7439-95-4	Magnesium	7320	1		EPA 6010D	
7439-96-5	Manganese	223	1		EPA 6010D	
7440-02-0	Nickel	14.9	1		EPA 6010D	
7440-09-7	Potassium	1170	1		EPA 6010D	
7782-49-2	Selenium	2.82	1		EPA 6010D	
7440-22-4	Silver	0.456	1	U	EPA 6010D	UJ
7440-23-5	Sodium	856	1		EPA 6010D	J+
7440-28-0	Thallium	2.26	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	31.2	1		EPA 6010D	
7440-66-6	Zinc	38.2	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID: QBICP2-111623BRE_1-073

Sampled: 11/08/23 11:25 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 16:50

Solids: 84.23 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	7980	1		EPA 6010D	
7440-36-0	Antimony	2.47	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	3.84	1		EPA 6010D	
7440-39-3	Barium	96.6	1		EPA 6010D	
7440-41-7	Beryllium	0.050	1	U	EPA 6010D	
7440-43-9	Cadmium	0.297	1	U	EPA 6010D	
7440-70-2	Calcium	11700	1	B	EPA 6010D	
7440-47-3	Chromium	23.1	1		EPA 6010D	
7440-48-4	Cobalt	7.83	1		EPA 6010D	
7440-50-8	Copper	28.0	1		EPA 6010D	
7439-89-6	Iron	13100	1		EPA 6010D	
7439-92-1	Lead	125	1		EPA 6010D	
7439-95-4	Magnesium	3290	1		EPA 6010D	
7439-96-5	Manganese	255	1		EPA 6010D	
7440-02-0	Nickel	21.8	1		EPA 6010D	
7440-09-7	Potassium	2140	1		EPA 6010D	
7782-49-2	Selenium	2.47	1	U	EPA 6010D	
7440-22-4	Silver	0.499	1	U	EPA 6010D	UJ
7440-23-5	Sodium	211	1		EPA 6010D	J+
7440-28-0	Thallium	2.47	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	20.8	1		EPA 6010D	
7440-66-6	Zinc	55.3	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID: QBICP2-111623BRE_1-074

Sampled: 11/08/23 11:40 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 16:53

Solids: 81.98 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	8120	1		EPA 6010D	
7440-36-0	Antimony	2.54	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	2.69	1		EPA 6010D	
7440-39-3	Barium	33.3	1		EPA 6010D	
7440-41-7	Beryllium	0.051	1	U	EPA 6010D	
7440-43-9	Cadmium	0.305	1	U	EPA 6010D	
7440-70-2	Calcium	591	1	B	EPA 6010D	
7440-47-3	Chromium	13.0	1		EPA 6010D	
7440-48-4	Cobalt	3.85	1		EPA 6010D	
7440-50-8	Copper	11.1	1		EPA 6010D	
7439-89-6	Iron	8520	1		EPA 6010D	
7439-92-1	Lead	8.57	1		EPA 6010D	
7439-95-4	Magnesium	2200	1		EPA 6010D	
7439-96-5	Manganese	62.4	1		EPA 6010D	
7440-02-0	Nickel	11.1	1		EPA 6010D	
7440-09-7	Potassium	1020	1		EPA 6010D	
7782-49-2	Selenium	2.54	1	U	EPA 6010D	
7440-22-4	Silver	0.512	1	U	EPA 6010D	UJ
7440-23-5	Sodium	106	1		EPA 6010D	J+
7440-28-0	Thallium	2.54	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	15.5	1		EPA 6010D	
7440-66-6	Zinc	31.6	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID: QBICP2-111623BRE_1-075

Sampled: 11/08/23 13:30 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 16:57

Solids: 88.63 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	14600	1		EPA 6010D	
7440-36-0	Antimony	2.35	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	3.67	1		EPA 6010D	
7440-39-3	Barium	122	1		EPA 6010D	
7440-41-7	Beryllium	0.047	1	U	EPA 6010D	
7440-43-9	Cadmium	0.282	1	U	EPA 6010D	
7440-70-2	Calcium	12100	1	B	EPA 6010D	
7440-47-3	Chromium	25.7	1		EPA 6010D	
7440-48-4	Cobalt	9.45	1		EPA 6010D	
7440-50-8	Copper	37.9	1		EPA 6010D	
7439-89-6	Iron	17600	1		EPA 6010D	
7439-92-1	Lead	107	1		EPA 6010D	
7439-95-4	Magnesium	4980	1		EPA 6010D	
7439-96-5	Manganese	342	1		EPA 6010D	
7440-02-0	Nickel	21.6	1		EPA 6010D	
7440-09-7	Potassium	2710	1		EPA 6010D	
7782-49-2	Selenium	2.58	1		EPA 6010D	
7440-22-4	Silver	0.474	1	U	EPA 6010D	UJ
7440-23-5	Sodium	483	1		EPA 6010D	J+
7440-28-0	Thallium	2.35	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	34.7	1		EPA 6010D	
7440-66-6	Zinc	61.4	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: QBICP2-111623BRE_1-076

Sampled: 11/08/23 13:45 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 17:00

Solids: 84.98 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	8630	1		EPA 6010D	
7440-36-0	Antimony	2.45	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	7.55	1		EPA 6010D	
7440-39-3	Barium	116	1		EPA 6010D	
7440-41-7	Beryllium	0.049	1	U	EPA 6010D	
7440-43-9	Cadmium	0.294	1	U	EPA 6010D	
7440-70-2	Calcium	20800	1	B	EPA 6010D	
7440-47-3	Chromium	18.6	1		EPA 6010D	
7440-48-4	Cobalt	8.87	1		EPA 6010D	
7440-50-8	Copper	40.9	1		EPA 6010D	
7439-89-6	Iron	40300	1		EPA 6010D	
7439-92-1	Lead	117	1		EPA 6010D	
7439-95-4	Magnesium	3880	1		EPA 6010D	
7439-96-5	Manganese	625	1		EPA 6010D	
7440-02-0	Nickel	19.9	1		EPA 6010D	
7440-09-7	Potassium	2400	1		EPA 6010D	
7782-49-2	Selenium	7.15	1		EPA 6010D	
7440-22-4	Silver	0.494	1	U	EPA 6010D	UJ
7440-23-5	Sodium	49.0	1	U	EPA 6010D	
7440-28-0	Thallium	2.45	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	32.4	1		EPA 6010D	
7440-66-6	Zinc	43.6	1		EPA 6010D	J+

MKP 2/1/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: QBICP2-111623BRE_1-077

Sampled: 11/08/23 13:45 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 17:03

Solids: 75.01 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	6300	1		EPA 6010D	
7440-36-0	Antimony	2.78	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	5.40	1		EPA 6010D	
7440-39-3	Barium	139	1		EPA 6010D	
7440-41-7	Beryllium	0.056	1	U	EPA 6010D	
7440-43-9	Cadmium	0.333	1	U	EPA 6010D	
7440-70-2	Calcium	13400	1	B	EPA 6010D	
7440-47-3	Chromium	13.7	1		EPA 6010D	
7440-48-4	Cobalt	5.05	1		EPA 6010D	
7440-50-8	Copper	38.0	1		EPA 6010D	
7439-89-6	Iron	10900	1		EPA 6010D	
7439-92-1	Lead	358	1		EPA 6010D	
7439-95-4	Magnesium	2500	1		EPA 6010D	
7439-96-5	Manganese	303	1		EPA 6010D	
7440-02-0	Nickel	19.8	1		EPA 6010D	
7440-09-7	Potassium	1030	1		EPA 6010D	
7782-49-2	Selenium	2.78	1	U	EPA 6010D	
7440-22-4	Silver	0.560	1	U	EPA 6010D	UJ
7440-23-5	Sodium	558	1		EPA 6010D	J'+
7440-28-0	Thallium	2.78	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	12.8	1		EPA 6010D	
7440-66-6	Zinc	31.8	1		EPA 6010D	J+

MKP 2/1/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID: QBICP2-111623BRE_1-078

Sampled: 11/08/23 15:00 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 17:06

Solids: 81.10 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	8330	1		EPA 6010D	
7440-36-0	Antimony	2.57	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	1.54	1	U	EPA 6010D	
7440-39-3	Barium	36.6	1		EPA 6010D	
7440-41-7	Beryllium	0.052	1	U	EPA 6010D	
7440-43-9	Cadmium	0.308	1	U	EPA 6010D	
7440-70-2	Calcium	1750	1	B	EPA 6010D	
7440-47-3	Chromium	20.8	1		EPA 6010D	
7440-48-4	Cobalt	5.83	1		EPA 6010D	
7440-50-8	Copper	18.9	1		EPA 6010D	
7439-89-6	Iron	11300	1		EPA 6010D	
7439-92-1	Lead	4.55	1		EPA 6010D	
7439-95-4	Magnesium	3290	1		EPA 6010D	
7439-96-5	Manganese	96.0	1		EPA 6010D	
7440-02-0	Nickel	13.0	1		EPA 6010D	
7440-09-7	Potassium	2180	1		EPA 6010D	
7782-49-2	Selenium	2.57	1	U	EPA 6010D	
7440-22-4	Silver	0.518	1	U	EPA 6010D	UJ
7440-23-5	Sodium	51.4	1	U	EPA 6010D	
7440-28-0	Thallium	2.57	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	20.5	1		EPA 6010D	
7440-66-6	Zinc	50.4	1		EPA 6010D	J+

MKP 2/1/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: METALS

METHOD: EPA 6010D/1311

DATA PACKAGE COVER PAGE

EPA 6010D/1311

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP4 (14-16 ft)	23K0665-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/27/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D/1311

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: QBICP2-122223ARE_1-078

Sampled: 11/08/23 13:45 Prepared: 12/22/23 09:07 Analyzed: 12/22/23 13:32

Solids: 75.01 Preparation: EPA 3015A/1311 Initial/Final: 2 mL / 50 mL

Batch: BL31609 Sequence: S3L2228 Calibration: 12/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-38-2	Arsenic	0.375	1	U	EPA 6010D/1311	
7440-39-3	Barium	0.639	1		EPA 6010D/1311	
7440-43-9	Cadmium	0.075	1	U	EPA 6010D/1311	
7440-47-3	Chromium	0.125	1	U	EPA 6010D/1311	
7439-92-1	Lead	2.92	1		EPA 6010D/1311	J+
7782-49-2	Selenium	0.625	1	U	EPA 6010D/1311	
7440-22-4	Silver	0.125	1	U	EPA 6010D/1311	

MKP 2/1/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: HG

METHOD: EPA 7473

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

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Signature:
Name: Cassie L. Mosher

Date: 12/13/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 11:00 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 91.55 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.286	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 11:15 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 92.17 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	1.11	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 11:25 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 84.23 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.782	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 11:40 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 81.98 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0366	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 13:30 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 88.63 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.237	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 13:45 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 84.98 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.561	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 13:45 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 75.01 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	3.07	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID: QBHg-DMA80-04 111623a

Sampled: 11/08/23 15:00 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 81.10 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0370	1	U	EPA 7473

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: HG

METHOD: EPA 7470/1311

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

EPA 7470/1311

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP4 (14-16 ft)	23K0665-07

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Signature:

Name: Cassie L. Mosher

Date: 12/26/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470/1311

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID: QBHg12222023A-036

Sampled: 11/08/23 13:45 Prepared: 12/22/23 08:53 Analyzed: 12/22/23 08:53

Solids: 75.01 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BL31603 Sequence: Calibration: 12/22/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.000200	1	U	EPA 7470/1311

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: WET

METHOD: Calculation

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

Calculation

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

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Signature:

Name: Cassie L. Mosher

Date: 12/12/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID:

Sampled: 11/08/23 11:00 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 91.55 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	15.8	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID:

Sampled: 11/08/23 11:15 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 92.17 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	16.6	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID:

Sampled: 11/08/23 11:25 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 84.23 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	23.1	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP3 (25-30 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-04	File ID:	
Sampled:	11/08/23 11:40	Prepared:	11/17/23 07:12	Analyzed:	11/17/23 09:33
Solids:	81.98	Preparation:	Analysis Preparation	Initial/Final:	2.5 g / 100 mL
Batch:	BK31120	Sequence:		Calibration:	11/17/23 0
Instrument:	Inst				

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	13.0	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID:

Sampled: 11/08/23 13:30 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 88.63 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	25.7	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP4 (12-14 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-06	File ID:	
Sampled:	11/08/23 13:45	Prepared:	11/17/23 07:12	Analyzed:	11/17/23 09:33
Solids:	84.98	Preparation:	Analysis Preparation	Initial/Final:	2.5 g / 100 mL
Batch:	BK31120	Sequence:		Calibration:	11/17/23 0
Instrument:	Inst				

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	18.6	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP4 (14-16 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0665
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0665-07	File ID:	
Sampled:	11/08/23 13:45	Prepared:	11/17/23 07:12	Analyzed:	11/17/23 09:33
Solids:	75.01	Preparation:	Analysis Preparation	Initial/Final:	2.5 g / 100 mL
Batch:	BK31120	Sequence:		Calibration:	11/17/23 0
Instrument:	Inst				

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	13.7	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID:

Sampled: 11/08/23 15:00 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 81.10 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	19.8	1		Calculation

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: WET

METHOD: EPA 7196A

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

EPA 7196A

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/12/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID:

Sampled: 11/08/23 11:00 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 91.55 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	2.36	1		EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID:

Sampled: 11/08/23 11:15 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 92.17 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.542	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID:

Sampled: 11/08/23 11:25 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 84.23 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.594	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID:

Sampled: 11/08/23 11:40 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 81.98 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.610	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID:

Sampled: 11/08/23 13:30 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 88.63 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.564	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID:

Sampled: 11/08/23 13:45 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 84.98 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.588	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID:

Sampled: 11/08/23 13:45 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 75.01 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.667	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID:

Sampled: 11/08/23 15:00 Prepared: 11/15/23 14:24 Analyzed: 11/15/23 20:17

Solids: 81.10 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK30998 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	1.04	1		EPA 7196A

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: WET

METHOD: EPA 9014/9010C

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/12/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID:

Sampled: 11/08/23 11:00 Prepared: 11/14/23 12:11 Analyzed: 11/14/23 19:25

Solids: 91.55 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK30904 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.546	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID:

Sampled: 11/08/23 11:15 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 92.17 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.542	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID:

Sampled: 11/08/23 11:25 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 84.23 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.712	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID:

Sampled: 11/08/23 11:40 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 81.98 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.610	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID:

Sampled: 11/08/23 13:30 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 88.63 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.564	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID:

Sampled: 11/08/23 13:45 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 84.98 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.588	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID:

Sampled: 11/08/23 13:45 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 75.01 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.667	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID:

Sampled: 11/08/23 15:00 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 81.10 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.617	1	U	EPA 9014/9010C

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

CLASS: WET

METHOD: SM 2540G

No data validation qualifiers were added

MKP 2/1/2024

DATA PACKAGE COVER PAGE

SM 2540G

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0665

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP3 (0-2.5 ft)	23K0665-01
23SP3 (8-12 ft)	23K0665-02
23SP3 (12-14 ft)	23K0665-03
23SP3 (25-30 ft)	23K0665-04
23SP4 (0-5 ft)	23K0665-05
23SP4 (12-14 ft)	23K0665-06
23SP4 (14-16 ft)	23K0665-07
23SP4 (27.5-30 ft)	23K0665-08

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Signature:

Name: Cassie L. Mosher

Date: 12/12/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP3 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-01 File ID:

Sampled: 11/08/23 11:00 Prepared: 11/14/23 11:39 Analyzed: 11/14/23 16:05

Solids: 91.55 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30902 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	91.6	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP3 (8-12 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-02 File ID:

Sampled: 11/08/23 11:15 Prepared: 11/14/23 11:39 Analyzed: 11/14/23 16:05

Solids: 92.17 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30902 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP3 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-03 File ID:

Sampled: 11/08/23 11:25 Prepared: 11/14/23 11:39 Analyzed: 11/14/23 16:05

Solids: 84.23 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30902 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	84.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP3 (25-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-04 File ID:

Sampled: 11/08/23 11:40 Prepared: 11/14/23 11:39 Analyzed: 11/14/23 16:05

Solids: 81.98 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30902 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	82.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP4 (0-5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-05 File ID:

Sampled: 11/08/23 13:30 Prepared: 11/14/23 11:39 Analyzed: 11/14/23 16:05

Solids: 88.63 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30902 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	88.6	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP4 (12-14 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-06 File ID:

Sampled: 11/08/23 13:45 Prepared: 11/14/23 11:39 Analyzed: 11/14/23 16:05

Solids: 84.98 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30902 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	85.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP4 (14-16 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-07 File ID:

Sampled: 11/08/23 13:45 Prepared: 11/14/23 11:43 Analyzed: 11/14/23 16:15

Solids: 75.01 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30903 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	75.0	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP4 (27.5-30 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0665

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0665-08 File ID:

Sampled: 11/08/23 15:00 Prepared: 11/14/23 11:43 Analyzed: 11/14/23 16:15

Solids: 81.10 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30903 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	81.1	1		SM 2540G

Appendix B

Laboratory QC Documentation

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1518
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1518-CCV1)			Lab File ID: V5435351.D		Analyzed: 11/14/23 09:31			
SURR: 1,2-Dichloroethane-d4	50.0	101	80 - 120	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	90.5	80 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.9	80 - 120	9.865	9.865143	-0.0001	+/-1.00	
LCS (BK30861-BS1)			Lab File ID: V5435352.D		Analyzed: 11/14/23 10:09			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.263	5.258714	0.0043	+/-1.00	
SURR: Toluene-d8	50.0	90.5	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	96.4	76 - 130	9.868	9.865143	0.0029	+/-1.00	
LCS Dup (BK30861-BSD1)			Lab File ID: V5435353.D		Analyzed: 11/14/23 10:37			
SURR: 1,2-Dichloroethane-d4	50.0	99.5	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	91.3	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.1	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30861-BLK1)			Lab File ID: V5435354.D		Analyzed: 11/14/23 11:04			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	89.8	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	98.4	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30861-BLK2)			Lab File ID: V5435355.D		Analyzed: 11/14/23 11:32			
SURR: 1,2-Dichloroethane-d4	50.0	100	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	90.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	99.3	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP3 (0-2.5 ft) (23K0665-01)			Lab File ID: V5435357.D		Analyzed: 11/14/23 12:27			
SURR: 1,2-Dichloroethane-d4	50.0	95.2	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	94.0	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	111	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP3 (8-12 ft) (23K0665-02)			Lab File ID: V5435358.D		Analyzed: 11/14/23 12:54			
SURR: 1,2-Dichloroethane-d4	50.0	97.4	77 - 125	5.264	5.258714	0.0053	+/-1.00	
SURR: Toluene-d8	50.0	91.5	85 - 120	7.096	7.092571	0.0034	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	103	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP3 (12-14 ft) (23K0665-03)			Lab File ID: V5435359.D		Analyzed: 11/14/23 13:22			
SURR: 1,2-Dichloroethane-d4	50.0	20.9	77 - 125	5.263	5.258714	0.0043	+/-1.00	*
SURR: Toluene-d8	50.0	123	85 - 120	7.099	7.092571	0.0064	+/-1.00	*
SURR: p-Bromofluorobenzene	50.0	142	76 - 130	9.868	9.865143	0.0029	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1518
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP4 (0-5 ft) (23K0665-05)			Lab File ID: V5435361.D		Analyzed: 11/14/23 14:17			
SURR: 1,2-Dichloroethane-d4	50.0	87.0	77 - 125	5.263	5.258714	0.0043	+/-1.00	
SURR: Toluene-d8	50.0	91.6	85 - 120	7.096	7.092571	0.0034	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	102	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP4 (27.5-30 ft) (23K0665-08)			Lab File ID: V5435370.D		Analyzed: 11/14/23 18:24			
SURR: 1,2-Dichloroethane-d4	50.0	70.9	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	91.5	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	99.8	76 - 130	9.865	9.865143	-0.0001	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1528
Instrument: VOA No. 5
Calibration: SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1528-CCV1)			Lab File ID: V5435399.D		Analyzed: 11/15/23 09:45			
SURR: 1,2-Dichloroethane-d4	50.0	101	80 - 120	5.257	5.258714	-0.0017	+/-1.00	
SURR: Toluene-d8	50.0	89.3	80 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.1	80 - 120	9.864	9.865143	-0.0011	+/-1.00	
LCS (BK30956-BS1)			Lab File ID: V5435400.D		Analyzed: 11/15/23 10:24			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	88.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	95.3	76 - 130	9.868	9.865143	0.0029	+/-1.00	
LCS Dup (BK30956-BSD1)			Lab File ID: V5435401.D		Analyzed: 11/15/23 10:52			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.263	5.258714	0.0043	+/-1.00	
SURR: Toluene-d8	50.0	88.9	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	96.4	76 - 130	9.868	9.865143	0.0029	+/-1.00	
Blank (BK30956-BLK1)			Lab File ID: V5435402.D		Analyzed: 11/15/23 11:19			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	89.0	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.9	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
Blank (BK30956-BLK2)			Lab File ID: V5435403.D		Analyzed: 11/15/23 11:46			
SURR: 1,2-Dichloroethane-d4	50.0	103	77 - 125	5.263	5.258714	0.0043	+/-1.00	
SURR: Toluene-d8	50.0	88.6	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.7	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP3 (12-14 ft) (23K0665-03RE1)			Lab File ID: V5435415.D		Analyzed: 11/15/23 17:15			
SURR: 1,2-Dichloroethane-d4	50.0	81.2	77 - 125	5.257	5.258714	-0.0017	+/-1.00	
SURR: Toluene-d8	50.0	90.3	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	98.9	76 - 130	9.868	9.865143	0.0029	+/-1.00	
23SP3 (25-30 ft) (23K0665-04)			Lab File ID: V5435416.D		Analyzed: 11/15/23 17:42			
SURR: 1,2-Dichloroethane-d4	50.0	92.4	77 - 125	5.26	5.258714	0.0013	+/-1.00	
SURR: Toluene-d8	50.0	88.4	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.1	76 - 130	9.865	9.865143	-0.0001	+/-1.00	
23SP4 (12-14 ft) (23K0665-06)			Lab File ID: V5435417.D		Analyzed: 11/15/23 18:09			
SURR: 1,2-Dichloroethane-d4	50.0	29.2	77 - 125	5.26	5.258714	0.0013	+/-1.00	*
SURR: Toluene-d8	50.0	120	85 - 120	7.096	7.092571	0.0034	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	130	76 - 130	9.868	9.865143	0.0029	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Sequence:	S3K1528	Instrument:	VOA No. 5
		Calibration:	SK30017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP4 (14-16 ft) (23K0665-07)			Lab File ID: V5435418.D		Analyzed: 11/15/23 18:37			
SURR: 1,2-Dichloroethane-d4	50.0	57.5	77 - 125	5.257	5.258714	-0.0017	+/-1.00	*
SURR: Toluene-d8	50.0	92.7	85 - 120	7.093	7.092571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	100	76 - 130	9.868	9.865143	0.0029	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30861	Laboratory ID:	BK30861-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #		QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	41	82.7		75 - 129
1,1,1-Trichloroethane	50.0	49	98.6		71 - 137
1,1,2,2-Tetrachloroethane	50.0	49	97.1		79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	56	111		58 - 146
1,1,2-Trichloroethane	50.0	48	95.5		83 - 123
1,1-Dichloroethane	50.0	50	99.2		75 - 130
1,1-Dichloroethylene	50.0	51	101		64 - 137
1,2,3-Trichlorobenzene	50.0	51	101		81 - 140
1,2,3-Trichloropropane	50.0	49	97.3		81 - 126
1,2,4-Trichlorobenzene	50.0	50	99.5		80 - 141
1,2,4-Trimethylbenzene	50.0	45	90.8		84 - 125
1,2-Dibromo-3-chloropropane	50.0	34	68.9	*	74 - 142
1,2-Dibromoethane	50.0	46	91.8		86 - 123
1,2-Dichlorobenzene	50.0	48	95.2		85 - 122
1,2-Dichloroethane	50.0	54	108		71 - 133
1,2-Dichloropropane	50.0	44	87.3		81 - 122
1,3,5-Trimethylbenzene	50.0	44	88.6		82 - 126
1,3-Dichlorobenzene	50.0	48	96.1		84 - 124
1,4-Dichlorobenzene	50.0	47	95.0		84 - 124
1,4-Dioxane	1050	400	37.9		10 - 228
2-Butanone	50.0	45	90.7		58 - 147
2-Hexanone	50.0	36	72.1		70 - 139
4-Methyl-2-pentanone	50.0	30	59.4	*	72 - 132
Acetone	50.0	41	81.2		36 - 155
Acrolein	50.0	45	89.8		10 - 238
Acrylonitrile	50.0	54	109		66 - 141
Benzene	50.0	53	106		77 - 127
Bromochloromethane	50.0	51	103		74 - 129
Bromodichloromethane	50.0	41	81.4		81 - 124
Bromoform	50.0	43	85.4		80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Matrix: Soil
Batch: BK30861
Laboratory ID: BK30861-BSD1
Preparation: EPA 5035A
Initial/Final: 5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	43	85.5	3.35	30	75 - 129
1,1,1-Trichloroethane	50.0	52	104	5.58	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	96.3	0.889	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	48	95.3	15.2	30	58 - 146
1,1,2-Trichloroethane	50.0	48	96.5	1.10	30	83 - 123
1,1-Dichloroethane	50.0	52	104	4.94	30	75 - 130
1,1-Dichloroethylene	50.0	46	91.0	10.8	30	64 - 137
1,2,3-Trichlorobenzene	50.0	52	103	1.84	30	81 - 140
1,2,3-Trichloropropane	50.0	49	98.3	0.981	30	81 - 126
1,2,4-Trichlorobenzene	50.0	51	102	2.89	30	80 - 141
1,2,4-Trimethylbenzene	50.0	48	97.0	6.56	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	32	63.8 *	7.75	30	74 - 142
1,2-Dibromoethane	50.0	46	91.2	0.612	30	86 - 123
1,2-Dichlorobenzene	50.0	49	98.7	3.59	30	85 - 122
1,2-Dichloroethane	50.0	54	108	0.0185	30	71 - 133
1,2-Dichloropropane	50.0	45	90.8	3.84	30	81 - 122
1,3,5-Trimethylbenzene	50.0	47	94.5	6.51	30	82 - 126
1,3-Dichlorobenzene	50.0	50	101	4.61	30	84 - 124
1,4-Dichlorobenzene	50.0	49	98.6	3.72	30	84 - 124
1,4-Dioxane	1050	380	36.6	3.63	30	10 - 228
2-Butanone	50.0	45	89.5	1.33	30	58 - 147
2-Hexanone	50.0	35	70.3	2.56	30	70 - 139
4-Methyl-2-pentanone	50.0	29	58.0 *	2.35	30	72 - 132
Acetone	50.0	26	52.8	42.3 *	30	36 - 155
Acrolein	50.0	44	88.4	1.53	30	10 - 238
Acrylonitrile	50.0	52	105	3.33	30	66 - 141
Benzene	50.0	55	111	4.31	30	77 - 127
Bromochloromethane	50.0	52	104	1.06	30	74 - 129
Bromodichloromethane	50.0	42	83.3	2.28	30	81 - 124
Bromoform	50.0	42	83.4	2.27	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK30891	Laboratory ID:	BK30891-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	8.2	82.4	43 - 168
Carbon disulfide	10.0	9.4	94.4	68 - 146
Carbon tetrachloride	10.0	10	100	77 - 141
Chlorobenzene	10.0	9.8	97.9	88 - 120
Chloroethane	10.0	11	115	65 - 136
Chloroform	10.0	10	99.9	82 - 128
Chloromethane	10.0	10	103	43 - 155
cis-1,2-Dichloroethylene	10.0	10	103	83 - 129
cis-1,3-Dichloropropylene	10.0	9.0	90.0	80 - 131
Cyclohexane	10.0	9.6	95.8	63 - 149
Dibromochloromethane	10.0	9.2	91.5	80 - 130
Dibromomethane	10.0	9.2	92.4	72 - 134
Dichlorodifluoromethane	10.0	11	113	44 - 144
Ethyl Benzene	10.0	10	102	80 - 131
Hexachlorobutadiene	10.0	8.3	83.0	67 - 146
Isopropylbenzene	10.0	9.6	96.1	76 - 140
Methyl acetate	10.0	8.2	82.3	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.8	97.6	76 - 135
Methylcyclohexane	10.0	8.9	88.8	72 - 143
Methylene chloride	10.0	9.6	95.5	55 - 137
n-Butylbenzene	10.0	8.9	89.2	79 - 132
n-Propylbenzene	10.0	9.6	96.0	78 - 133
o-Xylene	10.0	10	101	78 - 130
p- & m- Xylenes	20.0	21	104	77 - 133
p-Isopropyltoluene	10.0	9.7	96.6	81 - 136
sec-Butylbenzene	10.0	9.7	96.6	79 - 137
Styrene	10.0	10	102	67 - 132
tert-Butyl alcohol (TBA)	50.0	50	99.8	25 - 162
tert-Butylbenzene	10.0	9.1	91.4	77 - 138
Tetrachloroethylene	10.0	4.6	46.0 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK30891	Laboratory ID:	BK30891-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	10	101	80 - 127
trans-1,2-Dichloroethylene	10.0	9.8	98.2	80 - 132
trans-1,3-Dichloropropylene	10.0	9.5	95.4	78 - 131
trans-1,4-dichloro-2-butene	10.0	10	102	63 - 141
Trichloroethylene	10.0	8.9	89.2	82 - 128
Trichlorofluoromethane	10.0	14	143 *	67 - 139
Vinyl Chloride	10.0	11	113	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK30891	Laboratory ID:	BK30891-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	8.3	82.8		0.484	30	43 - 168
Carbon disulfide	10.0	9.2	92.2		2.36	30	68 - 146
Carbon tetrachloride	10.0	10	99.6		0.900	30	77 - 141
Chlorobenzene	10.0	9.7	97.2		0.718	30	88 - 120
Chloroethane	10.0	11	111		3.46	30	65 - 136
Chloroform	10.0	9.8	98.0		1.92	30	82 - 128
Chloromethane	10.0	9.6	96.3		7.01	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10	100		2.36	30	83 - 129
cis-1,3-Dichloropropylene	10.0	8.9	89.1		1.01	30	80 - 131
Cyclohexane	10.0	9.3	92.9		3.07	30	63 - 149
Dibromochloromethane	10.0	9.0	90.1		1.54	30	80 - 130
Dibromomethane	10.0	9.3	92.6		0.216	30	72 - 134
Dichlorodifluoromethane	10.0	11	110		3.14	30	44 - 144
Ethyl Benzene	10.0	10	102		0.0978	30	80 - 131
Hexachlorobutadiene	10.0	8.6	86.4		4.01	30	67 - 146
Isopropylbenzene	10.0	9.8	98.3		2.26	30	76 - 140
Methyl acetate	10.0	7.8	78.2		5.11	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.5	95.3		2.38	30	76 - 135
Methylcyclohexane	10.0	9.0	89.6		0.897	30	72 - 143
Methylene chloride	10.0	9.4	94.3		1.26	30	55 - 137
n-Butylbenzene	10.0	9.3	92.8		3.96	30	79 - 132
n-Propylbenzene	10.0	9.8	97.9		1.96	30	78 - 133
o-Xylene	10.0	10	101		0.00	30	78 - 130
p- & m- Xylenes	20.0	21	103		0.916	30	77 - 133
p-Isopropyltoluene	10.0	10	100		3.46	30	81 - 136
sec-Butylbenzene	10.0	9.9	99.4		2.86	30	79 - 137
Styrene	10.0	10	100		1.49	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	47	94.1		5.88	30	25 - 162
tert-Butylbenzene	10.0	9.4	94.5		3.34	30	77 - 138
Tetrachloroethylene	10.0	4.6	45.8	*	0.436	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30956	Laboratory ID:	BK30956-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	42	83.3	75 - 129
1,1,1-Trichloroethane	50.0	50	99.5	71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	95.7	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	61	122	58 - 146
1,1,2-Trichloroethane	50.0	48	96.7	83 - 123
1,1-Dichloroethane	50.0	50	99.2	75 - 130
1,1-Dichloroethylene	50.0	64	129	64 - 137
1,2,3-Trichlorobenzene	50.0	51	102	81 - 140
1,2,3-Trichloropropane	50.0	49	98.1	81 - 126
1,2,4-Trichlorobenzene	50.0	50	100	80 - 141
1,2,4-Trimethylbenzene	50.0	44	87.2	84 - 125
1,2-Dibromo-3-chloropropane	50.0	37	74.7	74 - 142
1,2-Dibromoethane	50.0	47	93.5	86 - 123
1,2-Dichlorobenzene	50.0	46	92.8	85 - 122
1,2-Dichloroethane	50.0	56	111	71 - 133
1,2-Dichloropropane	50.0	42	84.5	81 - 122
1,3,5-Trimethylbenzene	50.0	42	84.1	82 - 126
1,3-Dichlorobenzene	50.0	47	94.1	84 - 124
1,4-Dichlorobenzene	50.0	46	92.4	84 - 124
1,4-Dioxane	1050	420	40.3	10 - 228
2-Butanone	50.0	50	101	58 - 147
2-Hexanone	50.0	38	76.8	70 - 139
4-Methyl-2-pentanone	50.0	31	61.0 *	72 - 132
Acetone	50.0	51	101	36 - 155
Acrolein	50.0	130	266 *	10 - 238
Acrylonitrile	50.0	57	115	66 - 141
Benzene	50.0	53	106	77 - 127
Bromochloromethane	50.0	52	104	74 - 129
Bromodichloromethane	50.0	41	82.1	81 - 124
Bromoform	50.0	47	93.8	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Matrix: Soil
Batch: BK30956
Laboratory ID: BK30956-BSD1
Preparation: EPA 5035A
Initial/Final: 5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	42	84.5	1.36	30	75 - 129
1,1,1-Trichloroethane	50.0	51	103	3.11	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	96.4	0.750	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	46	91.2	29.0	30	58 - 146
1,1,2-Trichloroethane	50.0	48	96.5	0.207	30	83 - 123
1,1-Dichloroethane	50.0	51	102	2.49	30	75 - 130
1,1-Dichloroethylene	50.0	44	88.7	36.9 *	30	64 - 137
1,2,3-Trichlorobenzene	50.0	52	104	1.93	30	81 - 140
1,2,3-Trichloropropane	50.0	50	99.0	0.913	30	81 - 126
1,2,4-Trichlorobenzene	50.0	51	102	1.66	30	80 - 141
1,2,4-Trimethylbenzene	50.0	46	91.7	4.96	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	37	73.5 *	1.59	30	74 - 142
1,2-Dibromoethane	50.0	46	92.8	0.816	30	86 - 123
1,2-Dichlorobenzene	50.0	48	95.9	3.29	30	85 - 122
1,2-Dichloroethane	50.0	55	110	1.17	30	71 - 133
1,2-Dichloropropane	50.0	43	86.9	2.78	30	81 - 122
1,3,5-Trimethylbenzene	50.0	44	88.4	4.94	30	82 - 126
1,3-Dichlorobenzene	50.0	49	97.6	3.59	30	84 - 124
1,4-Dichlorobenzene	50.0	48	96.0	3.78	30	84 - 124
1,4-Dioxane	1050	390	37.4	7.63	30	10 - 228
2-Butanone	50.0	49	97.8	3.14	30	58 - 147
2-Hexanone	50.0	38	75.8	1.36	30	70 - 139
4-Methyl-2-pentanone	50.0	30	59.7 *	2.15	30	72 - 132
Acetone	50.0	32	65.0	43.6 *	30	36 - 155
Acrolein	50.0	67	134	65.9 *	30	10 - 238
Acrylonitrile	50.0	56	112	2.06	30	66 - 141
Benzene	50.0	54	109	2.33	30	77 - 127
Bromochloromethane	50.0	52	103	1.17	30	74 - 129
Bromodichloromethane	50.0	41	82.3	0.292	30	81 - 124
Bromoform	50.0	45	90.3	3.82	30	80 - 136

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1518
Instrument: VOA No. 5
Calibration: SK30017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1518-CCV1)			Lab File ID: V5435351.D			Analyzed: 11/14/23 09:31			
ISTD: Fluorobenzene	227820	5.562				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	979379	8.585				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	453671	11.553				50 - 200		+/-0.17	
LCS (BK30861-BS1)			Lab File ID: V5435352.D			Analyzed: 11/14/23 10:09			
ISTD: Fluorobenzene	227240	5.566	227820	5.562	100	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	991272	8.588	979379	8.585	101	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	456780	11.553	453671	11.553	101	50 - 200	0.0000	+/-0.17	
LCS Dup (BK30861-BSD1)			Lab File ID: V5435353.D			Analyzed: 11/14/23 10:37			
ISTD: Fluorobenzene	215530	5.566	227820	5.562	95	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	933544	8.588	979379	8.585	95	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	424584	11.553	453671	11.553	94	50 - 200	0.0000	+/-0.17	
Blank (BK30861-BLK1)			Lab File ID: V5435354.D			Analyzed: 11/14/23 11:04			
ISTD: Fluorobenzene	219779	5.566	227820	5.562	96	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	950080	8.588	979379	8.585	97	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	426139	11.553	453671	11.553	94	50 - 200	0.0000	+/-0.17	
Blank (BK30861-BLK2)			Lab File ID: V5435355.D			Analyzed: 11/14/23 11:32			
ISTD: Fluorobenzene	207472	5.566	227820	5.562	91	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	886676	8.585	979379	8.585	91	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	389995	11.553	453671	11.553	86	50 - 200	0.0000	+/-0.17	
23SP3 (0-2.5 ft) (23K0665-01)			Lab File ID: V5435357.D			Analyzed: 11/14/23 12:27			
ISTD: Fluorobenzene	227731	5.566	227820	5.562	100	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	936460	8.588	979379	8.585	96	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	355061	11.553	453671	11.553	78	50 - 200	0.0000	+/-0.17	
23SP3 (8-12 ft) (23K0665-02)			Lab File ID: V5435358.D			Analyzed: 11/14/23 12:54			
ISTD: Fluorobenzene	236781	5.566	227820	5.562	104	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1013084	8.588	979379	8.585	103	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	427157	11.553	453671	11.553	94	50 - 200	0.0000	+/-0.17	
23SP3 (12-14 ft) (23K0665-03)			Lab File ID: V5435359.D			Analyzed: 11/14/23 13:22			
ISTD: Fluorobenzene	1232355	5.572	227820	5.562	541	50 - 200	0.0100	+/-0.17	*
ISTD: Chlorobenzene-d5	1058785	8.591	979379	8.585	108	50 - 200	0.0060	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	456654	11.556	453671	11.553	101	50 - 200	0.0030	+/-0.17	
23SP4 (0-5 ft) (23K0665-05)			Lab File ID: V5435361.D			Analyzed: 11/14/23 14:17			
ISTD: Fluorobenzene	280069	5.566	227820	5.562	123	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1070979	8.588	979379	8.585	109	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	456384	11.553	453671	11.553	101	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1528
Instrument: VOA No. 5
Calibration: SK30017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1528-CCV1)			Lab File ID: V5435399.D			Analyzed: 11/15/23 09:45			
ISTD: Fluorobenzene	228329	5.562				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	1015163	8.585				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	472142	11.553				50 - 200		+/-0.17	
LCS (BK30956-BS1)			Lab File ID: V5435400.D			Analyzed: 11/15/23 10:24			
ISTD: Fluorobenzene	235439	5.566	228329	5.562	103	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1063903	8.588	1015163	8.585	105	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	501831	11.553	472142	11.553	106	50 - 200	0.0000	+/-0.17	
LCS Dup (BK30956-BSD1)			Lab File ID: V5435401.D			Analyzed: 11/15/23 10:52			
ISTD: Fluorobenzene	229529	5.566	228329	5.562	101	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1026245	8.585	1015163	8.585	101	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	474668	11.553	472142	11.553	101	50 - 200	0.0000	+/-0.17	
Blank (BK30956-BLK1)			Lab File ID: V5435402.D			Analyzed: 11/15/23 11:19			
ISTD: Fluorobenzene	223287	5.566	228329	5.562	98	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	991072	8.585	1015163	8.585	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	446815	11.553	472142	11.553	95	50 - 200	0.0000	+/-0.17	
Blank (BK30956-BLK2)			Lab File ID: V5435403.D			Analyzed: 11/15/23 11:46			
ISTD: Fluorobenzene	201777	5.566	228329	5.562	88	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	895923	8.588	1015163	8.585	88	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	403681	11.556	472142	11.553	85	50 - 200	0.0030	+/-0.17	
23SP3 (12-14 ft) (23K0665-03RE1)			Lab File ID: V5435415.D			Analyzed: 11/15/23 17:15			
ISTD: Fluorobenzene	250800	5.562	228329	5.562	110	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	963895	8.585	1015163	8.585	95	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	439561	11.556	472142	11.553	93	50 - 200	0.0030	+/-0.17	
23SP3 (25-30 ft) (23K0665-04)			Lab File ID: V5435416.D			Analyzed: 11/15/23 17:42			
ISTD: Fluorobenzene	237176	5.563	228329	5.562	104	50 - 200	0.0010	+/-0.17	
ISTD: Chlorobenzene-d5	1094715	8.585	1015163	8.585	108	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	497998	11.553	472142	11.553	105	50 - 200	0.0000	+/-0.17	
23SP4 (12-14 ft) (23K0665-06)			Lab File ID: V5435417.D			Analyzed: 11/15/23 18:09			
ISTD: Fluorobenzene	702442	5.566	228329	5.562	308	50 - 200	0.0040	+/-0.17	*
ISTD: Chlorobenzene-d5	953395	8.585	1015163	8.585	94	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	420382	11.553	472142	11.553	89	50 - 200	0.0000	+/-0.17	
23SP4 (14-16 ft) (23K0665-07)			Lab File ID: V5435418.D			Analyzed: 11/15/23 18:37			
ISTD: Fluorobenzene	369776	5.566	228329	5.562	162	50 - 200	0.0040	+/-0.17	
ISTD: Chlorobenzene-d5	1008265	8.585	1015163	8.585	99	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	457410	11.553	472142	11.553	97	50 - 200	0.0000	+/-0.17	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30015
Instrument: VOA No. 8
Calibration Date: 11/03/23 08:21

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.252487	16.09627	8.937625	1.502891E-02		0.9994804	0.99	
1,1,1-Trichloroethane	1.676194	12.47571	5.173125	4.838367E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4083268	3.235743	10.28825	2.687498E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.9052299	5.663156	3.00525	0.1026015			SPCC (0.1)	
1,1,2-Trichloroethane	0.1638889	7.168131	7.84425	3.410324E-02			SPCC (0.1)	
1,1-Dichloroethane	1.71564	10.89537	4.19	1.543197E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.319827	7.391632	3.039375	9.240386E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.377977	12.21371	5.320125	5.070292E-02			20	
1,2,3-Trichlorobenzene	0.3191153	6.390812	14.222	1.572699E-02			20	
1,2,3-Trichloropropane	0.1229479	11.51619	10.33525	2.783048E-02			20	
1,2,4,5-Tetramethylbenzene	1.76123	3.678628	12.606	1.890681E-02			20	
1,2,4-Trichlorobenzene	0.4262647	8.03048	13.6465	2.035218E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.304133	6.394563	10.93563	1.679805E-02			20	
1,2-Dibromo-3-chloropropane	6.500658E-02	9.461586	12.753	2.251016E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1535879	8.414096	8.376	2.429507E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.048737	8.569552	11.82787	9.896169E-03			SPCC (0.4)	
1,2-Dichloroethane	0.9439081	9.113743	5.591625	5.066179E-02			SPCC (0.1)	
1,2-Dichloropropane	0.237461	7.037048	6.380375	5.044474E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.365377	5.541924	10.51	2.653807E-02			20	
1,3-Dichlorobenzene	1.215782	13.00782	11.294	6.619869E-03			SPCC (0.6)	
1,3-Dichloropropane	0.28404	7.461732	8.01125	1.482835E-02			20	
1,4-Dichlorobenzene	1.195445	11.38534	11.39713	2.700964E-02			SPCC (0.5)	
1,4-Dioxane	1.12822E-03	28.08788	6.51725	0.0441906		0.9989541	0.99	
2,2-Dichloropropane	1.519586	7.086546	4.7085	6.176185E-02			20	
2-Butanone	6.586937E-02	22.24638	4.763429	8.055623E-02		0.9993472	SPCC (0.1)	
2-Chlorotoluene	2.404439	7.792115	10.44687	2.231395E-02			20	
2-Hexanone	9.722319E-02	7.063256	8.057625	4.675217E-02			SPCC (0.1)	
4-Chlorotoluene	2.059142	4.941344	10.57125	0.0174712			20	
4-Methyl-2-pentanone	0.1237697	7.445146	7.2125	3.829822E-02			SPCC (0.1)	
Acetone	0.2617927	47.91182	3.145	8.380614E-02		0.9992991	SPCC (0.1)	
Acrolein	5.997976E-02	4.101672	2.9925	4.764323E-03			20	
Acrylonitrile	0.1307435	5.561161	3.823125	6.920304E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30017
Instrument: VOA No. 5
Calibration Date: 11/08/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.1768489	28.61763	8.713429	8.51731E-03		0.999193	0.99	
1,1,1-Trichloroethane	1.186102	24.75231	4.956286	3.567608E-02		0.9998267	SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.3648293	10.26681	10.00814	9.206047E-03			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.7257799	5.261691	2.837714	6.135319E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.15437	10.80438	7.590143	2.123207E-02			SPCC (0.1)	
1,1-Dichloroethane	1.55934	12.55066	3.961	8.955549E-03			SPCC (0.2)	
1,1-Dichloroethylene	0.8507014	9.392211	2.824286	5.676757E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.310081	11.46433	5.102857	4.300413E-02			20	
1,2,3-Trichlorobenzene	0.5923596	13.87398	13.948	1.629964E-02			20	
1,2,3-Trichloropropane	0.1121159	9.351959	10.07043	1.093527E-02			20	
1,2,4,5-Tetramethylbenzene	1.91635	14.89101	12.42843	1.603686E-02			20	
1,2,4-Trichlorobenzene	0.6579711	16.71222	13.40171	1.945018E-02		0.9999669	SPCC (0.2)	
1,2,4-Trimethylbenzene	2.026112	10.14435	10.75243	3.29007E-03			20	
1,2-Dibromo-3-chloropropane	4.332248E-02	49.46278	12.46257	6.677881E-03		0.9977581	SPCC (0.05)	
1,2-Dibromoethane	0.1393584	17.60427	8.103857	2.973502E-02		0.9996787	SPCC (0.1)	
1,2-Dichlorobenzene	1.033858	7.349704	11.57543	8.633041E-03			SPCC (0.4)	
1,2-Dichloroethane	0.8056448	7.555565	5.330571	2.173974E-02			SPCC (0.1)	
1,2-Dichloropropane	0.217939	9.207201	6.151428	2.951707E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.128144	8.846162	10.33786	1.975266E-02			20	
1,3-Dichlorobenzene	1.163597	10.75797	11.06443	1.942749E-02			SPCC (0.6)	
1,3-Dichloropropane	0.2749346	9.787881	7.755	1.150606E-02			20	
1,4-Dichlorobenzene	1.14677	10.46928	11.18257	1.820291E-02			SPCC (0.5)	
1,4-Dioxane	1.468386E-03	14.37539	6.229714	3.647997E-02			20	
2,2-Dichloropropane	0.9434686	35.6689	4.492429	2.029412E-02		0.9994242	0.99	
2-Butanone	7.314443E-02	16.86072	4.476857	3.174473E-02		0.9991236	SPCC (0.1)	
2-Chlorotoluene	1.804776	7.235971	10.22886	1.472953E-02			20	
2-Hexanone	8.447907E-02	24.86589	7.802714	2.970713E-02		0.9990533	SPCC (0.1)	
4-Chlorotoluene	1.978971	7.036173	10.36429	2.422137E-02			20	
4-Methyl-2-pentanone	0.1313826	24.62494	6.961429	1.701935E-02		0.9992561	SPCC (0.1)	
Acetone	0.1274347	9.775239	2.876857	8.886638E-02			SPCC (0.1)	
Acrolein	3.586023E-02	21.29308	2.736	0.1098843		0.9994055	0.99	
Acrylonitrile	0.176318	14.35426	3.508428	3.737969E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30017
Instrument: VOA No. 5
Calibration Date: 11/08/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.862998	7.888703	5.283857	3.028554E-02			SPCC (0.5)	
Bromobenzene	0.8516796	7.809174	10.016	6.894089E-03			20	
Bromochloromethane	0.5758335	9.468282	4.702714	3.903395E-02			20	
Bromodichloromethane	0.2082164	30.18485	6.402	3.042352E-03		0.9994183	SPCC (0.2)	
Bromoform	6.436572E-02	50.66359	9.489714	2.279647E-02		0.9981781	SPCC (0.1)	
Bromomethane	6.051231E-02	7.373803	1.969286	8.074902E-02			SPCC (0.1)	
Carbon disulfide	2.170559	35.46099	3.036572	6.550458E-02		0.9995215	SPCC (0.1)	
Carbon tetrachloride	1.018982	29.22703	5.105143	3.102495E-02		0.9996981	SPCC (0.1)	
Chlorobenzene	0.6685799	8.829923	8.617	2.167338E-02			SPCC (0.5)	
Chloroethane	0.2967056	8.690116	2.068286	0.1333951			SPCC (0.1)	
Chloroform	1.447335	12.55964	4.797	1.963815E-02			SPCC (0.2)	
Chloromethane	0.849522	5.245163	1.595	2.047963E-02			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.30469	11.04707	4.483714	0.0405029			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.2752789	34.26645	6.826	1.822498E-02		0.9992954	SPCC (0.2)	
Cyclohexane	1.662531	8.179766	5.030286	2.577946E-02			SPCC (0.1)	
Dibromochloromethane	0.1290931	40.56127	7.979714	1.967868E-02		0.9988861	SPCC (0.1)	
Dibromomethane	9.980825E-02	14.1788	6.233	2.617731E-02			20	
Dichlorodifluoromethane	0.8407871	10.10344	1.434	2.266512E-02			SPCC (0.1)	
Ethyl Benzene	1.168762	8.827449	8.720857	0.0212444			SPCC (0.1)	
Hexachlorobutadiene	0.4881431	18.60453	13.57629	2.111447E-02		0.9998588	0.99	
Isopropylbenzene	2.662203	11.30985	9.675	5.871126E-03			SPCC (0.1)	
Methyl acetate	0.4089222	5.424375	3.171571	6.236366E-02			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	1.475749	19.67872	3.558571	0.0305501		0.9995389	SPCC (0.1)	
Methylcyclohexane	0.5238347	8.814988	6.139286	3.168167E-02			SPCC (0.1)	
Methylene chloride	1.034505	5.723256	3.296	6.171124E-03			SPCC (0.1)	
Naphthalene	1.179089	20.74486	13.69229	1.906761E-02		0.9998195	0.99	
n-Butylbenzene	2.694491	4.526491	11.572	2.326625E-02			20	
n-Propylbenzene	3.202307	7.314583	10.13486	2.450744E-02			20	
o-Xylene	0.8612993	11.20654	9.273	1.026723E-02			SPCC (0.3)	
p- & m- Xylenes	0.883358	7.961848	8.861714	1.752526E-02			SPCC (0.1)	
p-Diethylbenzene	1.397222	7.879663	11.54557	1.081057E-02			20	
p-Ethyltoluene	2.411533	7.71937	10.27214	8.369111E-03			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.04	-9.6	30.00
1,1,1-Trichloroethane	10.0	9.87	-1.3	30.00
1,1,2,2-Tetrachloroethane	10.0	10.2	2.1	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	2.1	30.00
1,1,2-Trichloroethane	10.0	9.60	-4.0	30.00
1,1-Dichloroethane	10.0	9.18	-8.2	30.00
1,1-Dichloroethylene	10.0	10.0	0.2	30.00
1,2,3-Trichlorobenzene	10.0	8.85	-11.5	30.00
1,2,3-Trichloropropane	10.0	10.0	0.2	30.00
1,2,4-Trichlorobenzene	10.0	9.01	-9.9	30.00
1,2,4-Trimethylbenzene	10.0	10.1	1.1	30.00
1,2-Dibromo-3-chloropropane	10.0	10.2	2.4	30.00
1,2-Dibromoethane	10.0	9.89	-1.1	30.00
1,2-Dichlorobenzene	10.0	9.60	-4.0	30.00
1,2-Dichloroethane	10.0	9.75	-2.5	30.00
1,2-Dichloropropane	10.0	9.75	-2.5	30.00
1,3,5-Trimethylbenzene	10.0	9.99	-0.1	30.00
1,3-Dichlorobenzene	10.0	9.49	-5.1	30.00
1,4-Dichlorobenzene	10.0	9.40	-6.0	30.00
1,4-Dioxane	210	173	-17.4	30.00
2-Butanone	10.0	9.03	-9.7	30.00
2-Hexanone	10.0	8.14	-18.6	30.00
4-Methyl-2-pentanone	10.0	9.01	-9.9	30.00
Acetone	10.0	16.2	61.8 *	30.00
Acrolein	10.0	11.1	10.6	30.00
Acrylonitrile	10.0	9.86	-1.4	30.00
Benzene	10.0	9.96	-0.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.88	-1.2	30.00
sec-Butylbenzene	10.0	9.82	-1.8	30.00
Styrene	10.0	9.86	-1.4	30.00
tert-Butyl alcohol (TBA)	50.0	47.9	-4.2	30.00
tert-Butylbenzene	10.0	9.77	-2.3	30.00
Tetrachloroethylene	10.0	4.90	-51.0 *	30.00
Toluene	10.0	9.94	-0.6	30.00
trans-1,2-Dichloroethylene	10.0	9.65	-3.5	30.00
trans-1,3-Dichloropropylene	10.0	9.46	-5.4	30.00
trans-1,4-dichloro-2-butene	10.0	9.28	-7.2	30.00
Trichloroethylene	10.0	9.52	-4.8	30.00
Trichlorofluoromethane	10.0	10.9	8.8	30.00
Vinyl Chloride	10.0	10.8	7.8	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30017
Laboratory ID: S3K0916-SCV1
Sequence: S3K0916
Standard ID: S23K115

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	50.0	41.2	-17.5	30.00
1,1,1-Trichloroethane	50.0	46.4	-7.1	30.00
1,1,2,2-Tetrachloroethane	50.0	46.9	-6.2	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	49.3	-1.4	30.00
1,1,2-Trichloroethane	50.0	44.6	-10.9	30.00
1,1-Dichloroethane	50.0	45.8	-8.5	30.00
1,1-Dichloroethylene	50.0	48.8	-2.3	30.00
1,2,3-Trichlorobenzene	50.0	47.3	-5.4	30.00
1,2,3-Trichloropropane	50.0	45.7	-8.6	30.00
1,2,4-Trichlorobenzene	50.0	48.2	-3.6	30.00
1,2,4-Trimethylbenzene	50.0	52.0	3.9	30.00
1,2-Dibromo-3-chloropropane	50.0	31.5	-37.0 *	30.00
1,2-Dibromoethane	50.0	46.0	-8.1	30.00
1,2-Dichlorobenzene	50.0	46.8	-6.4	30.00
1,2-Dichloroethane	50.0	44.2	-11.6	30.00
1,2-Dichloropropane	50.0	49.6	-0.9	30.00
1,3,5-Trimethylbenzene	50.0	52.3	4.7	30.00
1,3-Dichlorobenzene	50.0	47.2	-5.6	30.00
1,4-Dichlorobenzene	50.0	46.3	-7.4	30.00
1,4-Dioxane	1050	948	-9.7	30.00
2-Butanone	50.0	41.2	-17.5	30.00
2-Hexanone	50.0	34.4	-31.2 *	30.00
4-Methyl-2-pentanone	50.0	33.2	-33.7 *	30.00
Acetone	50.0	85.8	71.7 *	30.00
Acrolein	50.0	41.6	-16.9	30.00
Acrylonitrile	50.0	43.3	-13.3	30.00
Benzene	50.0	48.6	-2.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30017
Laboratory ID: S3K0916-SCV1
Sequence: S3K0916
Standard ID: S23K115

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	50.0	44.9	-10.3	30.00
Bromodichloromethane	50.0	42.1	-15.8	30.00
Bromoform	50.0	33.8	-32.4 *	30.00
Bromomethane	50.0	49.0	-1.9	30.00
Carbon disulfide	50.0	44.9	-10.2	30.00
Carbon tetrachloride	50.0	44.9	-10.3	30.00
Chlorobenzene	50.0	47.4	-5.2	30.00
Chloroethane	50.0	58.8	17.7	30.00
Chloroform	50.0	46.1	-7.9	30.00
Chloromethane	50.0	54.4	8.7	30.00
cis-1,2-Dichloroethylene	50.0	47.6	-4.8	30.00
cis-1,3-Dichloropropylene	50.0	39.8	-20.5	30.00
Cyclohexane	50.0	53.7	7.4	30.00
Dibromochloromethane	50.0	38.0	-23.9	30.00
Dibromomethane	50.0	44.6	-10.7	30.00
Dichlorodifluoromethane	50.0	51.5	3.0	30.00
Ethyl Benzene	50.0	50.6	1.2	30.00
Hexachlorobutadiene	50.0	51.8	3.6	30.00
Isopropylbenzene	50.0	53.0	6.0	30.00
Methyl acetate	50.0	40.8	-18.5	30.00
Methyl tert-butyl ether (MTBE)	50.0	47.2	-5.6	30.00
Methylcyclohexane	50.0	50.2	0.4	30.00
Methylene chloride	50.0	42.6	-14.8	30.00
n-Butylbenzene	50.0	52.7	5.3	30.00
n-Propylbenzene	50.0	51.8	3.7	30.00
o-Xylene	50.0	49.0	-1.9	30.00
p- & m- Xylenes	100	99.6	-0.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30017
Laboratory ID: S3K0916-SCV1
Sequence: S3K0916
Standard ID: S23K115

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	50.0	53.2	6.4	30.00
sec-Butylbenzene	50.0	53.1	6.3	30.00
Styrene	50.0	49.4	-1.1	30.00
tert-Butyl alcohol (TBA)	250	227	-9.4	30.00
tert-Butylbenzene	50.0	49.0	-1.9	30.00
Tetrachloroethylene	50.0	34.3	-31.3 *	30.00
Toluene	50.0	49.8	-0.4	30.00
trans-1,2-Dichloroethylene	50.0	48.6	-2.9	30.00
trans-1,3-Dichloropropylene	50.0	38.1	-23.8	30.00
trans-1,4-dichloro-2-butene	50.0	46.0	-8.1	30.00
Trichloroethylene	50.0	50.1	0.3	30.00
Trichlorofluoromethane	50.0	51.8	3.6	30.00
Vinyl Chloride	50.0	50.3	0.6	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841287.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K1513	Injection Date:	11/14/23
Lab Sample ID:	S3K1513-CCV1	Injection Time:	09:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.26	0.252487	0.2467584		-7.4	20	
1,1,1-Trichloroethane	A	10.0	10.7	1.676194	1.792545	0.1	6.9	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.66	0.4083268	0.3943196	0.3	-3.4	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	8.70	0.9052299	0.7876799	0.1	-13.0	20	
1,1,2-Trichloroethane	A	10.0	9.19	0.1638889	0.1506778	0.1	-8.1	20	
1,1-Dichloroethane	A	10.0	9.95	1.71564	1.706699	0.2	-0.5	20	
1,1-Dichloroethylene	A	10.0	8.73	1.319827	1.15224	0.1	-12.7	20	
1,2,3-Trichlorobenzene	A	10.0	8.26	0.3191153	0.2635715		-17.4	20	
1,2,3-Trichloropropane	A	10.0	9.59	0.1229479	0.117887		-4.1	20	
1,2,4-Trichlorobenzene	A	10.0	8.61	0.4262647	0.366822	0.2	-13.9	20	
1,2,4-Trimethylbenzene	A	10.0	10.2	2.304133	2.339105		1.5	20	
1,2-Dibromo-3-chloropropane	A	10.0	9.88	6.500658E-02	6.423407E-02	0.05	-1.2	20	
1,2-Dibromoethane	A	10.0	9.29	0.1535879	0.1426218	0.1	-7.1	20	
1,2-Dichlorobenzene	A	10.0	9.60	1.048737	1.006483	0.4	-4.0	20	
1,2-Dichloroethane	A	10.0	11.3	0.9439081	1.069775	0.1	13.3	20	
1,2-Dichloropropane	A	10.0	9.09	0.237461	0.2158162	0.1	-9.1	20	
1,3,5-Trimethylbenzene	A	10.0	9.99	2.365377	2.36369		-0.07	20	
1,3-Dichlorobenzene	A	10.0	9.48	1.215782	1.153029	0.6	-5.2	20	
1,4-Dichlorobenzene	A	10.0	9.37	1.195445	1.120153	0.5	-6.3	20	
1,4-Dioxane	A	200	164	1.12822E-03	1.141823E-03		-18.1	20	
2-Butanone	A	10.0	9.79	6.586937E-02	6.445353E-02	0.1	-2.1	20	
2-Hexanone	A	10.0	8.17	9.722319E-02	7.944264E-02	0.1	-18.3	20	
4-Methyl-2-pentanone	A	10.0	8.40	0.1237697	0.1039851	0.1	-16.0	20	
Acetone	A	10.0	6.74	0.2617927	0.13506	0.1	-32.6	20	*
Acrolein	A	10.0	6.99	5.997976E-02	4.189882E-02		-30.1	20	*
Acrylonitrile	A	10.0	8.06	0.1307435	0.1053328		-19.4	20	
Benzene	A	10.0	10.2	3.916385	4.010329	0.5	2.4	20	
Bromochloromethane	A	10.0	10.4	0.5664581	0.5898209		4.1	20	
Bromodichloromethane	A	10.0	9.76	0.3228941	0.3149864	0.2	-2.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841287.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K1513	Injection Date:	11/14/23
Lab Sample ID:	S3K1513-CCV1	Injection Time:	09:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	8.12	0.104662	9.561305E-02	0.1	-18.8	20	
Bromomethane	A	10.0	6.91	0.9829663	0.6789844	0.1	-30.9	20	*
Carbon disulfide	A	10.0	7.95	2.28485	1.816656	0.1	-20.5	20	*
Carbon tetrachloride	A	10.0	10.4	1.471433	1.523382	0.1	3.5	20	
Chlorobenzene	A	10.0	9.90	0.7242045	0.7171293	0.5	-1.0	20	
Chloroethane	A	10.0	11.4	0.9008924	1.026937	0.1	14.0	20	
Chloroform	A	10.0	10.4	1.677331	1.750619	0.2	4.4	20	
Chloromethane	A	10.0	9.01	1.118135	1.007494	0.1	-9.9	20	
cis-1,2-Dichloroethylene	A	10.0	10.5	1.45028	1.52518	0.1	5.2	20	
cis-1,3-Dichloropropylene	A	10.0	9.53	0.3896441	0.3712245	0.2	-4.7	20	
Cyclohexane	A	10.0	9.95	1.69539	1.687668	0.1	-0.5	20	
Dibromochloromethane	A	10.0	9.17	0.2044674	0.1875499	0.1	-8.3	20	
Dibromomethane	A	10.0	9.54	0.1124353	0.1072218		-4.6	20	
Dichlorodifluoromethane	A	10.0	7.06	0.9597646	0.6779828	0.1	-29.4	20	*
Ethyl Benzene	A	10.0	10.3	1.349986	1.391283	0.1	3.1	20	
Hexachlorobutadiene	A	10.0	8.95	0.1196686	0.1071393		-10.5	20	
Isopropylbenzene	A	10.0	9.85	3.043018	2.996392	0.1	-1.5	20	
Methyl acetate	A	10.0	8.24	0.3475983	0.2596564	0.1	-17.6	20	
Methyl tert-butyl ether (MTBE)	A	10.0	9.57	2.055289	1.966544	0.1	-4.3	20	
Methylcyclohexane	A	10.0	9.30	0.4933143	0.4585867	0.1	-7.0	20	
Methylene chloride	A	10.0	9.33	0.9924044	0.9263439	0.1	-6.7	20	
n-Butylbenzene	A	10.0	9.56	0.4197883	0.4011976		-4.4	20	
n-Propylbenzene	A	10.0	10.0	3.517517	3.532065		0.4	20	
o-Xylene	A	10.0	10.4	1.0445	1.089096	0.3	4.3	20	
p- & m- Xylenes	A	20.0	21.6	1.073196	1.158074	0.1	7.9	20	
p-Isopropyltoluene	A	10.0	9.92	2.33792	2.318571		-0.8	20	
sec-Butylbenzene	A	10.0	10.1	2.778702	2.80538		1.0	20	
Styrene	A	10.0	10.4	0.8082976	0.8429095	0.3	4.3	20	
tert-Butyl alcohol (TBA)	A	50.0	46.9	5.388464E-02	5.053972E-02		-6.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841287.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K1513	Injection Date:	11/14/23
Lab Sample ID:	S3K1513-CCV1	Injection Time:	09:09

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.71	2.025551	1.966091		-2.9	20	
Tetrachloroethylene	A	10.0	5.35	0.4668419	0.2976382	0.2	-46.5	20	*
Toluene	A	10.0	10.2	1.191132	1.213777	0.4	1.9	20	
trans-1,2-Dichloroethylene	A	10.0	9.66	1.284921	1.241546	0.1	-3.4	20	
trans-1,3-Dichloropropylene	A	10.0	9.80	0.3172758	0.3110785	0.1	-2.0	20	
trans-1,4-dichloro-2-butene	A	10.0	10.8	0.3803903	0.4102841		7.9	20	
Trichloroethylene	A	10.0	9.08	0.2917918	0.2648644	0.2	-9.2	20	
Trichlorofluoromethane	A	10.0	13.8	1.980224	2.735961	0.1	38.2	20	*
Vinyl Chloride	A	10.0	10.2	1.220025	1.243308	0.1	1.9	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435351.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1518	Injection Date:	11/14/23
Lab Sample ID:	S3K1518-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	50.0	41.3	0.1768489	0.1908628		-17.5	20	
1,1,1-Trichloroethane	A	50.0	49.8	1.186102	1.341436	0.1	-0.5	20	
1,1,2,2-Tetrachloroethane	A	50.0	47.1	0.3648293	0.3737731	0.3	2.5	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	43.4	0.7257799	0.7599552	0.1	4.7	20	
1,1,2-Trichloroethane	A	50.0	48.7	0.15437	0.1548471	0.1	0.3	20	
1,1-Dichloroethane	A	50.0	51.1	1.55934	1.645567	0.2	5.5	20	
1,1-Dichloroethylene	A	50.0	40.7	0.8507014	0.8604205	0.1	1.1	20	
1,2,3-Trichlorobenzene	A	50.0	50.6	0.5923596	0.5914528		-0.2	20	
1,2,3-Trichloropropane	A	50.0	48.8	0.1121159	0.1114089		-0.6	20	
1,2,4-Trichlorobenzene	A	50.0	48.8	0.6579711	0.670261	0.2	-2.3	20	
1,2,4-Trimethylbenzene	A	50.0	44.2	2.026112	1.875546		-7.4	20	
1,2-Dibromo-3-chloropropane	A	50.0	36.8	4.332248E-02	4.741983E-02	0.05	-26.4	20	*
1,2-Dibromoethane	A	50.0	45.7	0.1393584	0.1469196	0.1	-8.5	20	
1,2-Dichlorobenzene	A	50.0	47.5	1.033858	0.9918355	0.4	-4.1	20	
1,2-Dichloroethane	A	50.0	55.4	0.8056448	0.8643578	0.1	7.3	20	
1,2-Dichloropropane	A	50.0	43.6	0.217939	0.2052811	0.1	-5.8	20	
1,3,5-Trimethylbenzene	A	50.0	43.1	2.128144	1.944092		-8.6	20	
1,3-Dichlorobenzene	A	50.0	48.6	1.163597	1.116648	0.6	-4.0	20	
1,4-Dichlorobenzene	A	50.0	48.4	1.14677	1.103335	0.5	-3.8	20	
1,4-Dioxane	A	1000	848	1.468386E-03	1.461538E-03		-0.5	20	
2-Butanone	A	50.0	47.6	7.314443E-02	8.297779E-02	0.1	-4.8	20	
2-Hexanone	A	50.0	39.1	8.447907E-02	8.873276E-02	0.1	-21.9	20	*
4-Methyl-2-pentanone	A	50.0	35.3	0.1313826	0.1364109	0.1	-29.5	20	*
Acetone	A	50.0	34.8	0.1274347	0.1232903	0.1	-3.3	20	
Acrolein	A	50.0	43.0	3.586023E-02	4.549206E-02		-14.0	20	
Acrylonitrile	A	50.0	54.8	0.176318	0.1937407		9.9	20	
Benzene	A	50.0	52.0	3.862998	4.089154	0.5	5.9	20	
Bromochloromethane	A	50.0	52.2	0.5758335	0.6071899		5.4	20	
Bromodichloromethane	A	50.0	40.8	0.2082164	0.2208706	0.2	-18.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435351.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1518	Injection Date:	11/14/23
Lab Sample ID:	S3K1518-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	42.6	6.436572E-02	8.085736E-02	0.1	-14.7	20	
Bromomethane	A	50.0	39.6	6.051231E-02	0.4897024	0.1	709	20	*
Carbon disulfide	A	50.0	43.8	2.170559	2.641265	0.1	-12.4	20	
Carbon tetrachloride	A	50.0	49.2	1.018982	1.194443	0.1	-1.7	20	
Chlorobenzene	A	50.0	49.7	0.6685799	0.6549824	0.5	-2.0	20	
Chloroethane	A	50.0	38.7	0.2967056	0.4081951	0.1	37.6	20	*
Chloroform	A	50.0	54.2	1.447335	1.553099	0.2	7.3	20	
Chloromethane	A	50.0	34.6	0.849522	0.5711834	0.1	-32.8	20	*
cis-1,2-Dichloroethylene	A	50.0	50.9	1.30469	1.384659	0.1	6.1	20	
cis-1,3-Dichloropropylene	A	50.0	39.8	0.2752789	0.2941446	0.2	-20.4	20	*
Cyclohexane	A	50.0	50.4	1.662531	1.728711	0.1	4.0	20	
Dibromochloromethane	A	50.0	42.8	0.1290931	0.1502125	0.1	-14.5	20	
Dibromomethane	A	50.0	47.8	9.980825E-02	0.1005484		0.7	20	
Dichlorodifluoromethane	A	50.0	39.0	0.8407871	0.7840971	0.1	-6.7	20	
Ethyl Benzene	A	50.0	45.4	1.168762	1.144632	0.1	-2.1	20	
Hexachlorobutadiene	A	50.0	50.7	0.4881431	0.4776501		1.4	20	
Isopropylbenzene	A	50.0	46.1	2.662203	2.466181	0.1	-7.4	20	
Methyl acetate	A	50.0	53.7	0.4089222	0.3899263	0.1	-4.6	20	
Methyl tert-butyl ether (MTBE)	A	50.0	43.3	1.475749	1.582363	0.1	-13.3	20	
Methylcyclohexane	A	50.0	41.6	0.5238347	0.4979329	0.1	-4.9	20	
Methylene chloride	A	50.0	50.0	1.034505	1.015016	0.1	-1.9	20	
n-Butylbenzene	A	50.0	42.8	2.694491	2.48784		-7.7	20	
n-Propylbenzene	A	50.0	45.1	3.202307	2.939465		-8.2	20	
o-Xylene	A	50.0	42.1	0.8612993	0.8475003	0.3	-1.6	20	
p- & m- Xylenes	A	100	92.2	0.883358	0.8687194	0.1	-1.7	20	
p-Isopropyltoluene	A	50.0	45.0	2.449024	2.296905		-6.2	20	
sec-Butylbenzene	A	50.0	45.7	2.968845	2.754335		-7.2	20	
Styrene	A	50.0	41.6	0.6725389	0.6902915	0.3	2.6	20	
tert-Butyl alcohol (TBA)	A	250	197	3.264256E-02	3.647441E-02		-21.3	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435351.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1518	Injection Date:	11/14/23
Lab Sample ID:	S3K1518-CCV1	Injection Time:	09:31

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	47.8	2.054007	2.016827		-1.8	20	
Tetrachloroethylene	A	50.0	41.8	0.4288938	0.3340137	0.2	-16.5	20	
Toluene	A	50.0	44.8	1.076867	1.032739	0.4	-4.1	20	
trans-1,2-Dichloroethylene	A	50.0	49.8	1.265385	1.323997	0.1	-0.3	20	
trans-1,3-Dichloropropylene	A	50.0	37.4	0.1953299	0.2187897	0.1	-25.2	20	*
trans-1,4-dichloro-2-butene	A	50.0	43.8	0.3639574	0.3603779		-12.4	20	
Trichloroethylene	A	50.0	44.0	0.2598047	0.2460426	0.2	-5.3	20	
Trichlorofluoromethane	A	50.0	44.0	1.097241	1.18447	0.1	7.9	20	
Vinyl Chloride	A	50.0	36.6	0.7000698	0.6647441	0.1	-5.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435399.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1528	Injection Date:	11/15/23
Lab Sample ID:	S3K1528-CCV1	Injection Time:	09:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	50.0	42.3	0.1768489	0.1957695		-15.4	20	
1,1,1-Trichloroethane	A	50.0	51.7	1.186102	1.396148	0.1	3.5	20	
1,1,2,2-Tetrachloroethane	A	50.0	46.0	0.3648293	0.3646805	0.3	-0.04	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	57.5	0.7257799	1.006534	0.1	38.7	20	*
1,1,2-Trichloroethane	A	50.0	48.6	0.15437	0.1543476	0.1	-0.01	20	
1,1-Dichloroethane	A	50.0	51.9	1.55934	1.670261	0.2	7.1	20	
1,1-Dichloroethylene	A	50.0	57.5	0.8507014	1.216284	0.1	43.0	20	*
1,2,3-Trichlorobenzene	A	50.0	50.8	0.5923596	0.5934931		0.2	20	
1,2,3-Trichloropropane	A	50.0	47.7	0.1121159	0.108838		-2.9	20	
1,2,4-Trichlorobenzene	A	50.0	49.8	0.6579711	0.683951	0.2	-0.4	20	
1,2,4-Trimethylbenzene	A	50.0	44.0	2.026112	1.866627		-7.9	20	
1,2-Dibromo-3-chloropropane	A	50.0	36.8	4.332248E-02	4.742429E-02	0.05	-26.4	20	*
1,2-Dibromoethane	A	50.0	46.2	0.1393584	0.1483023	0.1	-7.7	20	
1,2-Dichlorobenzene	A	50.0	47.2	1.033858	0.9856399	0.4	-4.7	20	
1,2-Dichloroethane	A	50.0	55.0	0.8056448	0.8584236	0.1	6.6	20	
1,2-Dichloropropane	A	50.0	43.0	0.217939	0.2021784	0.1	-7.2	20	
1,3,5-Trimethylbenzene	A	50.0	42.9	2.128144	1.934013		-9.1	20	
1,3-Dichlorobenzene	A	50.0	48.6	1.163597	1.114751	0.6	-4.2	20	
1,4-Dichlorobenzene	A	50.0	48.5	1.14677	1.103687	0.5	-3.8	20	
1,4-Dioxane	A	1000	856	1.468386E-03	1.47464E-03		0.4	20	
2-Butanone	A	50.0	48.1	7.314443E-02	8.381327E-02	0.1	-3.9	20	
2-Hexanone	A	50.0	38.6	8.447907E-02	8.779477E-02	0.1	-22.7	20	*
4-Methyl-2-pentanone	A	50.0	35.6	0.1313826	0.1376321	0.1	-28.8	20	*
Acetone	A	50.0	54.6	0.1274347	0.1918372	0.1	50.5	20	*
Acrolein	A	50.0	40.4	3.586023E-02	4.270154E-02		-19.3	20	
Acrylonitrile	A	50.0	54.3	0.176318	0.1918942		8.8	20	
Benzene	A	50.0	52.9	3.862998	4.159625	0.5	7.7	20	
Bromochloromethane	A	50.0	52.9	0.5758335	0.6151124		6.8	20	
Bromodichloromethane	A	50.0	41.6	0.2082164	0.2254613	0.2	-16.8	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435399.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1528	Injection Date:	11/15/23
Lab Sample ID:	S3K1528-CCV1	Injection Time:	09:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	46.1	6.436572E-02	8.766178E-02	0.1	-7.8	20	
Bromomethane	A	50.0	38.2	6.051231E-02	0.4721345	0.1	680	20	*
Carbon disulfide	A	50.0	45.3	2.170559	2.730008	0.1	-9.4	20	
Carbon tetrachloride	A	50.0	51.2	1.018982	1.245571	0.1	2.4	20	
Chlorobenzene	A	50.0	49.5	0.6685799	0.6532882	0.5	-2.3	20	
Chloroethane	A	50.0	36.8	0.2967056	0.3875986	0.1	30.6	20	*
Chloroform	A	50.0	55.3	1.447335	1.585112	0.2	9.5	20	
Chloromethane	A	50.0	31.0	0.849522	0.5130229	0.1	-39.6	20	*
cis-1,2-Dichloroethylene	A	50.0	52.1	1.30469	1.416062	0.1	8.5	20	
cis-1,3-Dichloropropylene	A	50.0	40.9	0.2752789	0.3026844	0.2	-18.2	20	
Cyclohexane	A	50.0	51.9	1.662531	1.780168	0.1	7.1	20	
Dibromochloromethane	A	50.0	44.5	0.1290931	0.1564626	0.1	-11.0	20	
Dibromomethane	A	50.0	47.3	9.980825E-02	9.950717E-02		-0.3	20	
Dichlorodifluoromethane	A	50.0	32.7	0.8407871	0.656811	0.1	-21.9	20	*
Ethyl Benzene	A	50.0	45.0	1.168762	1.133135	0.1	-3.0	20	
Hexachlorobutadiene	A	50.0	51.0	0.4881431	0.4807494		2.1	20	
Isopropylbenzene	A	50.0	45.6	2.662203	2.437508	0.1	-8.4	20	
Methyl acetate	A	50.0	53.7	0.4089222	0.3900424	0.1	-4.6	20	
Methyl tert-butyl ether (MTBE)	A	50.0	48.0	1.475749	1.75375	0.1	-4.0	20	
Methylcyclohexane	A	50.0	41.1	0.5238347	0.4913871	0.1	-6.2	20	
Methylene chloride	A	50.0	48.1	1.034505	0.9762317	0.1	-5.6	20	
n-Butylbenzene	A	50.0	42.1	2.694491	2.446063		-9.2	20	
n-Propylbenzene	A	50.0	44.3	3.202307	2.890677		-9.7	20	
o-Xylene	A	50.0	41.9	0.8612993	0.8429129	0.3	-2.1	20	
p- & m- Xylenes	A	100	91.3	0.883358	0.8608036	0.1	-2.6	20	
p-Isopropyltoluene	A	50.0	44.8	2.449024	2.289699		-6.5	20	
sec-Butylbenzene	A	50.0	45.2	2.968845	2.724837		-8.2	20	
Styrene	A	50.0	41.5	0.6725389	0.6887771	0.3	2.4	20	
tert-Butyl alcohol (TBA)	A	250	230	3.264256E-02	4.293892E-02		-8.0	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 5	Calibration:	SK30017
Lab File ID:	V5435399.D	Calibration Date:	11/08/23 08:00
Sequence:	S3K1528	Injection Date:	11/15/23
Lab Sample ID:	S3K1528-CCV1	Injection Time:	09:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	47.3	2.054007	1.994472		-2.9	20	
Tetrachloroethylene	A	50.0	44.0	0.4288938	0.3528576	0.2	-11.9	20	
Toluene	A	50.0	44.7	1.076867	1.02912	0.4	-4.4	20	
trans-1,2-Dichloroethylene	A	50.0	51.0	1.265385	1.353924	0.1	1.9	20	
trans-1,3-Dichloropropylene	A	50.0	39.0	0.1953299	0.2280018	0.1	-22.1	20	*
trans-1,4-dichloro-2-butene	A	50.0	44.6	0.3639574	0.3668261		-10.9	20	
Trichloroethylene	A	50.0	44.0	0.2598047	0.2458787	0.2	-5.4	20	
Trichlorofluoromethane	A	50.0	42.4	1.097241	1.140766	0.1	4.0	20	
Vinyl Chloride	A	50.0	34.2	0.7000698	0.6204906	0.1	-11.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1734
Instrument: BNA #7
Calibration: SK30004

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1734-CCV1)			Lab File ID: E70351596.D		Analyzed: 11/16/23 18:21			
SURR: 2-Fluorophenol	30.0	89.1	0 - 200	3.753	3.724625	0.0284	+/-1.00	
SURR: Phenol-d6	30.0	91.4	0 - 200	4.527	4.494875	0.0321	+/-1.00	
SURR: Nitrobenzene-d5	30.0	89.5	0 - 200	5.242	5.22925	0.0127	+/-1.00	
SURR: 2-Fluorobiphenyl	30.0	102	0 - 200	6.737	6.7185	0.0185	+/-1.00	
SURR: 2,4,6-Tribromophenol	30.0	122	0 - 200	8.483	8.44375	0.0393	+/-1.00	
SURR: Terphenyl-d14	30.0	103	0 - 200	11.956	11.91338	0.0426	+/-1.00	
23SP3 (0-2.5 ft) (23K0665-01)			Lab File ID: E70351600.D		Analyzed: 11/16/23 20:26			
SURR: 2-Fluorophenol	1.78	9.72	20 - 108	3.741	3.724625	0.0164	+/-1.00	*
SURR: Phenol-d6	1.78	20.5	23 - 114	4.515	4.494875	0.0201	+/-1.00	*
SURR: Nitrobenzene-d5	0.889	27.4	22 - 108	5.237	5.22925	0.0077	+/-1.00	
SURR: 2-Fluorobiphenyl	0.889	27.4	21 - 113	6.72	6.7185	0.0015	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.78	3.92	19 - 110	8.465	8.44375	0.0213	+/-1.00	*
SURR: Terphenyl-d14	0.889	28.7	24 - 116	11.939	11.91338	0.0256	+/-1.00	
23SP3 (8-12 ft) (23K0665-02)			Lab File ID: E70351601.D		Analyzed: 11/16/23 20:56			
SURR: 2-Fluorophenol	1.77	65.6	20 - 108	3.747	3.724625	0.0224	+/-1.00	
SURR: Phenol-d6	1.77	66.0	23 - 114	4.521	4.494875	0.0261	+/-1.00	
SURR: Nitrobenzene-d5	0.886	71.3	22 - 108	5.237	5.22925	0.0077	+/-1.00	
SURR: 2-Fluorobiphenyl	0.886	74.6	21 - 113	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.77	87.7	19 - 110	8.471	8.44375	0.0273	+/-1.00	
SURR: Terphenyl-d14	0.886	79.1	24 - 116	11.95	11.91338	0.0366	+/-1.00	
23SP3 (12-14 ft) (23K0665-03)			Lab File ID: E70351602.D		Analyzed: 11/16/23 21:25			
SURR: 2-Fluorophenol	1.97	55.0	20 - 108	3.753	3.724625	0.0284	+/-1.00	
SURR: Phenol-d6	1.97	52.1	23 - 114	4.527	4.494875	0.0321	+/-1.00	
SURR: Nitrobenzene-d5	0.983	60.8	22 - 108	5.242	5.22925	0.0127	+/-1.00	
SURR: 2-Fluorobiphenyl	0.983	57.0	21 - 113	6.732	6.7185	0.0135	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.97	69.1	19 - 110	8.477	8.44375	0.0333	+/-1.00	
SURR: Terphenyl-d14	0.983	66.3	24 - 116	11.95	11.91338	0.0366	+/-1.00	
23SP3 (25-30 ft) (23K0665-04)			Lab File ID: E70351603.D		Analyzed: 11/16/23 21:55			
SURR: 2-Fluorophenol	2.02	56.8	20 - 108	3.753	3.724625	0.0284	+/-1.00	
SURR: Phenol-d6	2.02	57.2	23 - 114	4.527	4.494875	0.0321	+/-1.00	
SURR: Nitrobenzene-d5	1.01	60.6	22 - 108	5.242	5.22925	0.0127	+/-1.00	
SURR: 2-Fluorobiphenyl	1.01	63.7	21 - 113	6.732	6.7185	0.0135	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.02	73.7	19 - 110	8.483	8.44375	0.0393	+/-1.00	
SURR: Terphenyl-d14	1.01	65.7	24 - 116	11.956	11.91338	0.0426	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31053	Laboratory ID:	BK31053-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
1,1-Biphenyl	0.831	0.634	76.3	18 - 111
1,2,4,5-Tetrachlorobenzene	0.831	0.588	70.8	21 - 131
1,2,4-Trichlorobenzene	0.831	0.612	73.7	10 - 140
1,2-Dichlorobenzene	0.831	0.559	67.3	34 - 108
1,2-Diphenylhydrazine (as Azobenzene)	0.831	0.641	77.1	17 - 137
1,3-Dichlorobenzene	0.831	0.571	68.7	33 - 110
1,4-Dichlorobenzene	0.831	0.589	70.9	32 - 104
2,3,4,6-Tetrachlorophenol	0.831	0.656	79.0	30 - 130
2,4,5-Trichlorophenol	0.831	0.594	71.5	27 - 118
2,4,6-Trichlorophenol	0.831	0.654	78.8	31 - 120
2,4-Dichlorophenol	0.831	0.654	78.8	20 - 127
2,4-Dimethylphenol	0.831	0.528	63.5	14 - 132
2,4-Dinitrophenol	0.831	0.416	50.1	10 - 171
2,4-Dinitrotoluene	0.831	0.769	92.6	34 - 131
2,6-Dinitrotoluene	0.831	0.789	95.0	31 - 128
2-Chloronaphthalene	0.831	0.602	72.4	31 - 117
2-Chlorophenol	0.831	0.625	75.2	33 - 113
2-Methylnaphthalene	0.831	0.580	69.9	12 - 138
2-Methylphenol	0.831	0.622	74.9	10 - 136
2-Nitroaniline	0.831	0.834	100	27 - 132
2-Nitrophenol	0.831	0.893	107	17 - 129
3- & 4-Methylphenols	0.831	0.412	49.6	29 - 103
3,3-Dichlorobenzidine	0.831	1.34	162 *	22 - 149
3-Nitroaniline	0.831	0.733	88.2	20 - 133
4,6-Dinitro-2-methylphenol	0.831	0.968	117	10 - 143
4-Bromophenyl phenyl ether	0.831	0.607	73.1	29 - 120
4-Chloro-3-methylphenol	0.831	0.662	79.7	24 - 129
4-Chloroaniline	0.831	0.333	40.0	10 - 132
4-Chlorophenyl phenyl ether	0.831	0.600	72.3	27 - 124
4-Nitroaniline	0.831	0.737	88.7	16 - 128

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.58448	3.544253	6.80375	0.1825872			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.4675845	4.442957	6.562125	0.1747262			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.2812595	7.114969	5.751375	0.1612923			20	
1,2-Dichlorobenzene	1.482179	4.783369	4.920125	0.1988233			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.9368827	4.714477	8.27425	0.1617629			20	
1,3-Dichlorobenzene	1.544358	5.062963	4.723	0.2029172			20	
1,4-Dichlorobenzene	1.579991	4.492532	4.75875	0.1866359			20	
2,3,4,6-Tetrachlorophenol	0.1299258	10.02989	7.845125	0.2005175			SPCC (0.01)	
2,4,5-Trichlorophenol	0.3378067	7.844157	6.690125	0.1713612			SPCC (0.2)	
2,4,6-Trichlorophenol	0.2950052	8.353011	6.653875	0.1835595			SPCC (0.2)	
2,4-Dichlorophenol	0.2488906	4.769764	5.679375	0.1569845			SPCC (0.2)	
2,4-Dimethylphenol	0.2837471	5.474553	5.518875	0.1377068			SPCC (0.2)	
2,4-Dinitrophenol	6.672327E-02	42.99398	7.518	0.1746261			SPCC (0.01)	*
2,4-Dinitrotoluene	0.3189717	21.25647	7.692375	0.1737629			SPCC (0.2)	*
2,6-Dinitrotoluene	0.2444813	18.0875	7.244375	0.1841868			SPCC (0.2)	
2-Chloronaphthalene	1.125321	4.591738	6.824875	0.1717545			SPCC (0.8)	
2-Chlorophenol	1.383042	4.584219	4.606875	0.2093262			SPCC (0.8)	
2-Methylnaphthalene	0.6576992	5.985113	6.372375	0.1672699			SPCC (0.4)	
2-Methylphenol	1.127103	3.634443	4.983375	0.1500613			SPCC (0.7)	
2-Nitroaniline	0.3470772	15.25153	6.965875	0.1845732			SPCC (0.01)	
2-Nitrophenol	0.1410626	9.017735	5.501875	0.1817565			SPCC (0.1)	
3- & 4-Methylphenols	1.710722	3.693593	5.096125	0.1983575			SPCC (0.6)	
3,3-Dichlorobenzidine	0.476604	11.07177	14.02963	0.1094211			SPCC (0.01)	
3-Nitroaniline	0.3118217	12.53309	7.405125	0.1771377			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	6.395164E-02	39.91615	8.211	0.1693039			SPCC (0.01)	*
4-Bromophenyl phenyl ether	0.1778004	4.172418	8.757125	0.1799693			SPCC (0.1)	
4-Chloro-3-methylphenol	0.2888503	4.846186	6.248125	0.1616488			SPCC (0.2)	
4-Chloroaniline	0.4199863	5.011689	5.864875	0.1927784			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.5941548	2.569765	8.06125	0.1952104			SPCC (0.4)	
4-Nitroaniline	0.3203372	12.04705	8.171	0.1791622			SPCC (0.01)	
4-Nitrophenol	0.271315	13.01804	7.564375	0.1601309			SPCC (0.01)	
Acenaphthene	1.095571	3.157927	7.464125	0.1709655			SPCC (0.9)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthylene	1.90149	3.653924	7.262	0.1807059			SPCC (0.9)	
Acetophenone	2.127855	4.954929	5.10125	0.1888992			SPCC (0.01)	
Aniline	2.054586	3.708684	4.523125	0.1660573			SPCC ()	
Anthracene	1.077212	3.930975	9.517	0.1251185			SPCC (0.7)	
Atrazine	0.1966296	5.87485	9.0785	0.1586969			SPCC (0.01)	
Benzaldehyde	1.161117	6.931282	4.408875	0.2187847			SPCC (0.01)	
Benzidine	0.5753458	12.91901	11.466	0.1323274			20	
Benzo(a)anthracene	1.29345	3.823915	13.95187	0.1203029			SPCC (0.8)	
Benzo(a)pyrene	1.167304	7.385991	16.83613	9.745885E-02			SPCC (0.7)	
Benzo(b)fluoranthene	1.217679	5.311605	16.20925	9.631515E-02			SPCC (0.7)	
Benzo(g,h,i)perylene	1.015063	7.597123	19.3115	8.603334E-02			SPCC (0.5)	
Benzo(k)fluoranthene	1.291905	4.993503	16.2565	0.1066804			SPCC (0.7)	
Benzoic acid	0.1475029	36.11995	5.595875	0.2953773			20	*
Benzyl alcohol	0.9399217	3.854087	4.882375	0.1821055			20	
Benzyl butyl phthalate	0.6216166	11.49739	13.0195	0.1101736			20	
Bis(2-chloroethoxy)methane	0.406978	7.318958	5.597125	0.1958425			SPCC (0.3)	
Bis(2-chloroethyl)ether	1.43603	3.86877	4.569	0.1734465			SPCC (0.7)	
Bis(2-chloroisopropyl)ether	1.988478	5.61948	5.002375	0.1944762			SPCC (0.01)	
Bis(2-ethylhexyl)phthalate	0.8344516	11.2304	14.35263	0.1012992			20	
Caprolactam	0.1001433	10.49855	6.13475	0.2792034			SPCC (0.01)	
Carbazole	1.023745	3.709349	9.727125	0.1186385			SPCC (0.01)	
Chrysene	1.354546	3.861438	14.0435	0.1108449			SPCC (0.7)	
Dibenzo(a,h)anthracene	0.9728928	11.21524	18.93637	0.0759342			SPCC (0.4)	
Dibenzofuran	1.632596	3.635415	7.64525	0.1840666			SPCC (0.8)	
Diethyl phthalate	1.353198	3.547448	7.972375	0.1753444			SPCC (0.01)	
Dimethyl phthalate	1.303882	3.345505	7.152875	0.1742905			SPCC (0.01)	
Di-n-butyl phthalate	1.159312	5.197642	10.28138	0.1303243			SPCC (0.01)	
Di-n-octyl phthalate	1.255997	20.74487	15.66737	8.944153E-02			SPCC (0.01)	*
Diphenylamine	0.5609292	5.133152	8.235	0.1697666			20	
Fluoranthene	1.122611	3.768362	11.17225	0.124381			SPCC (0.6)	
Fluorene	1.345643	3.248564	8.076375	0.1652907			SPCC (0.9)	
Hexachlorobenzene	0.1005795	6.131823	8.994875	0.1846889			SPCC (0.1)	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	30.4	1.5	30.00
1,2-Dichlorobenzene	30.0	28.5	-5.1	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	28.7	-4.2	30.00
1,3-Dichlorobenzene	30.0	28.4	-5.3	30.00
1,4-Dichlorobenzene	30.0	28.8	-4.1	30.00
2,3,4,6-Tetrachlorophenol	30.0	35.9	19.7	30.00
2,4,5-Trichlorophenol	30.0	30.7	2.3	30.00
2,4,6-Trichlorophenol	30.0	31.7	5.5	30.00
2,4-Dichlorophenol	30.0	31.2	4.0	30.00
2,4-Dimethylphenol	30.0	23.1	-23.0	30.00
2,4-Dinitrophenol	30.0	45.8	52.6 *	30.00
2,4-Dinitrotoluene	30.0	35.5	18.5	30.00
2,6-Dinitrotoluene	30.0	36.2	20.7	30.00
2-Chloronaphthalene	30.0	28.9	-3.6	30.00
2-Chlorophenol	30.0	30.0	0.1	30.00
2-Methylnaphthalene	30.0	29.8	-0.6	30.00
2-Methylphenol	30.0	28.8	-3.8	30.00
2-Nitroaniline	30.0	33.7	12.4	30.00
2-Nitrophenol	30.0	35.5	18.4	30.00
3- & 4-Methylphenols	30.0	25.5	-14.9	30.00
3-Nitroaniline	30.0	32.8	9.5	30.00
4,6-Dinitro-2-methylphenol	30.0	39.9	33.0 *	30.00
4-Bromophenyl phenyl ether	30.0	28.6	-4.8	30.00
4-Chloro-3-methylphenol	30.0	31.6	5.2	30.00
4-Chloroaniline	30.0	28.6	-4.6	30.00
4-Chlorophenyl phenyl ether	30.0	28.9	-3.6	30.00
4-Nitroaniline	30.0	31.8	5.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	28.2	-6.0	30.00
Hexachlorobutadiene	30.0	29.7	-0.9	30.00
Hexachlorocyclopentadiene	30.0	17.7	-40.9 *	30.00
Hexachloroethane	30.0	28.9	-3.8	30.00
Indeno(1,2,3-cd)pyrene	30.0	31.9	6.2	30.00
Isophorone	30.0	31.2	4.2	30.00
Naphthalene	30.0	29.9	-0.4	30.00
Nitrobenzene	30.0	30.4	1.2	30.00
N-Nitrosodimethylamine	30.0	28.3	-5.7	30.00
N-nitroso-di-n-propylamine	30.0	28.2	-5.9	30.00
N-Nitrosodiphenylamine	30.0	33.5	11.7	30.00
Pentachlorophenol	30.0	35.4	18.0	30.00
Phenanthrene	30.0	28.8	-3.9	30.00
Phenol	30.0	28.8	-3.9	30.00
Pyrene	30.0	28.7	-4.3	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351596.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K1734	Injection Date:	11/16/23
Lab Sample ID:	S3K1734-CCV1	Injection Time:	18:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	29.8	0.58448	0.5800564	0.01	-0.8	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	31.0	0.4675845	0.4825664	0.01	3.2	20	
1,2,4-Trichlorobenzene	A	30.0	28.5	0.2812595	0.2670845		-5.0	20	
1,2-Dichlorobenzene	A	30.0	28.8	1.482179	1.423543		-4.0	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	25.7	0.9368827	0.8022975		-14.4	20	
1,3-Dichlorobenzene	A	30.0	28.2	1.544358	1.454148		-5.8	20	
1,4-Dichlorobenzene	A	30.0	28.7	1.579991	1.511022		-4.4	20	
2,3,4,6-Tetrachlorophenol	A	30.0	33.0	0.1299258	0.142922	0.01	10.0	20	
2,4,5-Trichlorophenol	A	30.0	33.6	0.3378067	0.3785567	0.2	12.1	20	
2,4,6-Trichlorophenol	A	30.0	34.1	0.2950052	0.3350879	0.2	13.6	20	
2,4-Dichlorophenol	A	30.0	29.7	0.2488906	0.2465515	0.2	-0.9	20	
2,4-Dimethylphenol	A	30.0	28.5	0.2837471	0.2694257	0.2	-5.0	20	
2,4-Dinitrophenol	A	30.0	62.0	6.672327E-02	0.1377872	0.01	107	20	*
2,4-Dinitrotoluene	A	30.0	38.7	0.3189717	0.4112832	0.2	28.9	20	*
2,6-Dinitrotoluene	A	30.0	37.5	0.2444813	0.3057241	0.2	25.1	20	*
2-Chloronaphthalene	A	30.0	29.1	1.125321	1.090257	0.8	-3.1	20	
2-Chlorophenol	A	30.0	29.4	1.383042	1.353261	0.8	-2.2	20	
2-Methylnaphthalene	A	30.0	28.7	0.6576992	0.6283204	0.4	-4.5	20	
2-Methylphenol	A	30.0	28.5	1.127103	1.070838	0.7	-5.0	20	
2-Nitroaniline	A	30.0	34.9	0.3470772	0.4038701	0.01	16.4	20	
2-Nitrophenol	A	30.0	35.6	0.1410626	0.1671389	0.1	18.5	20	
3- & 4-Methylphenols	A	30.0	28.8	1.710722	1.642697	0.6	-4.0	20	
3,3-Dichlorobenzidine	A	30.0	31.1	0.476604	0.4947419	0.01	3.8	20	
3-Nitroaniline	A	30.0	34.4	0.3118217	0.3579752	0.01	14.8	20	
4,6-Dinitro-2-methylphenol	A	30.0	57.8	6.395164E-02	0.123285	0.01	92.8	20	*
4-Bromophenyl phenyl ether	A	30.0	32.7	0.1778004	0.193873	0.1	9.0	20	
4-Chloro-3-methylphenol	A	30.0	28.0	0.2888503	0.2700941	0.2	-6.5	20	
4-Chloroaniline	A	30.0	28.2	0.4199863	0.3951228	0.01	-5.9	20	
4-Chlorophenyl phenyl ether	A	30.0	31.5	0.5941548	0.6235086	0.4	4.9	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351596.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K1734	Injection Date:	11/16/23
Lab Sample ID:	S3K1734-CCV1	Injection Time:	18:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	32.9	0.3203372	0.3508862	0.01	9.5	20	
4-Nitrophenol	A	30.0	27.6	0.271315	0.2495202	0.01	-8.0	20	
Acenaphthene	A	30.0	29.4	1.095571	1.074277	0.9	-1.9	20	
Acenaphthylene	A	30.0	29.5	1.90149	1.869723	0.9	-1.7	20	
Acetophenone	A	30.0	27.5	2.127855	1.950386	0.01	-8.3	20	
Aniline	A	30.0	27.6	2.054586	1.891368		-7.9	20	
Anthracene	A	30.0	30.3	1.077212	1.088954	0.7	1.1	20	
Atrazine	A	30.0	33.3	0.1966296	0.2180826	0.01	10.9	20	
Benzaldehyde	A	30.0	26.7	1.161117	1.033838	0.01	-11.0	20	
Benzidine	A	30.0	29.6	0.5753458	0.568349		-1.2	20	
Benzo(a)anthracene	A	30.0	31.1	1.29345	1.34003	0.8	3.6	20	
Benzo(a)pyrene	A	30.0	29.0	1.167304	1.128325	0.7	-3.3	20	
Benzo(b)fluoranthene	A	30.0	29.6	1.217679	1.201227	0.7	-1.4	20	
Benzo(g,h,i)perylene	A	30.0	27.6	1.015063	0.9320696	0.5	-8.2	20	
Benzo(k)fluoranthene	A	30.0	26.8	1.291905	1.151805	0.7	-10.8	20	
Benzoic acid	A	30.0	26.6	0.1475029	0.1516703		2.8	20	
Benzyl alcohol	A	30.0	28.9	0.9399217	0.9061605		-3.6	20	
Benzyl butyl phthalate	A	30.0	34.8	0.6216166	0.7199387		15.8	20	
Bis(2-chloroethoxy)methane	A	30.0	25.4	0.406978	0.3453043	0.3	-15.2	20	
Bis(2-chloroethyl)ether	A	30.0	26.1	1.43603	1.247636	0.7	-13.1	20	
Bis(2-chloroisopropyl)ether	A	30.0	20.4	1.988478	1.355173	0.01	-31.8	20	*
Bis(2-ethylhexyl)phthalate	A	30.0	33.8	0.8344516	0.9395475		12.6	20	
Caprolactam	A	30.0	33.3	0.1001433	0.1111409	0.01	11.0	20	
Carbazole	A	30.0	30.2	1.023745	1.030975	0.01	0.7	20	
Chrysene	A	30.0	28.4	1.354546	1.284427	0.7	-5.2	20	
Dibenzo(a,h)anthracene	A	30.0	30.3	0.9728928	0.9833484	0.4	1.1	20	
Dibenzofuran	A	30.0	29.7	1.632596	1.614376	0.8	-1.1	20	
Diethyl phthalate	A	30.0	30.0	1.353198	1.353952	0.01	0.06	20	
Dimethyl phthalate	A	30.0	29.3	1.303882	1.271753	0.01	-2.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351596.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K1734	Injection Date:	11/16/23
Lab Sample ID:	S3K1734-CCV1	Injection Time:	18:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	31.5	1.159312	1.216332	0.01	4.9	20	
Di-n-octyl phthalate	A	30.0	38.4	1.255997	1.607938	0.01	28.0	20	*
Diphenylamine	A	30.0	32.1	0.5609292	0.5996923		6.9		
Fluoranthene	A	30.0	30.9	1.122611	1.154719	0.6	2.9	20	
Fluorene	A	30.0	30.6	1.345643	1.374657	0.9	2.2	20	
Hexachlorobenzene	A	30.0	27.8	0.1005795	9.316905E-02	0.1	-7.4	20	
Hexachlorobutadiene	A	30.0	28.8	0.1473557	0.1412535	0.01	-4.1	20	
Hexachlorocyclopentadiene	A	30.0	22.4	0.2725474	0.2030255	0.05	-25.5	20	*
Hexachloroethane	A	30.0	28.2	0.6058276	0.5693416	0.3	-6.0	20	
Indeno(1,2,3-cd)pyrene	A	30.0	34.3	0.9943673	0.9946237	0.5	0.03	20	
Isophorone	A	30.0	25.2	0.6839875	0.5751621	0.4	-15.9	20	
Naphthalene	A	30.0	26.9	1.014117	0.9091388	0.7	-10.4	20	
Nitrobenzene	A	30.0	25.0	0.380903	0.3171973	0.2	-16.7	20	
N-Nitrosodimethylamine	A	30.0	21.6	0.8236448	0.5917794		-28.2	20	*
N-nitroso-di-n-propylamine	A	30.0	25.7	1.195253	1.025073	0.5	-14.2	20	
N-Nitrosodiphenylamine	A	30.0	31.0	0.1989297	0.2055202	0.01	3.3	20	
Pentachlorophenol	A	30.0	31.6	8.893906E-02	9.376165E-02	0.05	5.4	20	
Phenanthrene	A	30.0	29.5	1.091927	1.075083	0.7	-1.5	20	
Phenol	A	30.0	27.1	1.932752	1.746679	0.8	-9.6	20	
Pyrene	A	30.0	31.0	1.497822	1.549336	0.6	3.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP3 (0-2.5 ft) (23K0665-01)			Lab File ID: QQQ32289.d		Analyzed: 11/17/23 14:59			
M3PFBS	2.10	55.4	25 - 150	5.141067	5.154708	-0.0136	+/-1.00	
M5PFHxA	2.26	66.7	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	2.26	73.9	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	2.14	90.0	25 - 150	6.889783	6.69831	0.1915	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.26	59.8	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	1.13	66.6	25 - 150	8.624267	8.325208	0.2991	+/-1.00	
M7PFUdA	1.13	58.7	25 - 150	9.078383	8.807389	0.2710	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.13	48.4	25 - 150	9.475616	9.254519	0.2211	+/-1.00	
M2PFTeDA	1.13	44.9	10 - 150	10.1104	10.01288	0.0975	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.05	4.71	25 - 150	1.149733	1.219727	-0.0700	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.16	89.3	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.51	61.1	25 - 150	4.34795	4.446487	-0.0985	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.26	46.7	10 - 150	9.0546	8.806458	0.2481	+/-1.00	
d3-N-MeFOSAA	4.51	27.1	25 - 150	8.82605	8.533981	0.2921	+/-1.00	
d5-N-EtFOSAA	4.51	31.9	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	4.29	31.9	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	4.33	53.5	25 - 200	8.5864	8.28256	0.3038	+/-1.00	
M9PFNA	1.13	65.2	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	4.24	12.9	25 - 150	5.88805	5.828181	0.0599	+/-1.00	*
d-N-MeFOSA	2.26	34.3	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.26	54.3	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	9.05	69.2	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	22.6	97.8	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	22.6	131	25 - 150	9.846117	9.668704	0.1774	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP3 (8-12 ft) (23K0665-02)			Lab File ID: QQQ32290.d		Analyzed: 11/17/23 15:17			
M3PFBS	2.07	93.8	25 - 150	5.159517	5.154708	0.0048	+/-1.00	
M5PFHxA	2.23	120	25 - 150	5.98225	5.896742	0.0855	+/-1.00	
M4PFHpA	2.23	135	25 - 150	6.816683	6.612394	0.2043	+/-1.00	
M3PFHxS	2.11	144	25 - 150	6.917533	6.69831	0.2192	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.23	107	25 - 150	7.510917	7.228673	0.2822	+/-1.00	
M6PFDA	1.11	115	25 - 150	8.633533	8.325208	0.3083	+/-1.00	
M7PFUdA	1.11	115	25 - 150	9.078383	8.807389	0.2710	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.11	91.0	25 - 150	9.475616	9.254519	0.2211	+/-1.00	
M2PFTeDA	1.11	80.4	10 - 150	10.11962	10.01288	0.1067	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	8.92	22.8	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.13	109	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.45	132	25 - 150	4.375533	4.446487	-0.0710	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.23	64.8	10 - 150	9.073317	8.806458	0.2669	+/-1.00	
d3-N-MeFOSAA	4.45	65.6	25 - 150	8.835333	8.533981	0.3014	+/-1.00	
d5-N-EtFOSAA	4.45	81.5	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	4.23	80.4	25 - 200	7.445267	7.170869	0.2744	+/-1.00	
M2-8:2 FTS	4.27	135	25 - 200	8.595667	8.28256	0.3131	+/-1.00	
M9PFNA	1.11	110	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	4.18	37.0	25 - 150	5.916383	5.828181	0.0882	+/-1.00	
d-N-MeFOSA	2.23	34.6	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.23	60.0	25 - 150	10.135	10.01312	0.1219	+/-1.00	
M3HFPO-DA	8.92	94.5	25 - 150	6.281517	6.155542	0.1260	+/-1.00	
d9-N-EtFOSE	22.3	93.6	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	22.3	111	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP3 (12-14 ft) (23K0665-03)			Lab File ID: QQQ32297.d		Analyzed: 11/17/23 17:10			
M3PFBS	2.27	99.6	25 - 150	5.13185	5.154708	-0.0229	+/-1.00	
M5PFHxA	2.44	98.8	25 - 150	5.954533	5.896742	0.0578	+/-1.00	
M4PFHpA	2.44	118	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	2.31	165	25 - 150	6.889783	6.69831	0.1915	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.44	110	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	1.22	133	25 - 150	8.624267	8.325208	0.2991	+/-1.00	
M7PFUdA	1.22	129	25 - 150	9.069117	8.807389	0.2617	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.22	121	25 - 150	9.46635	9.254519	0.2118	+/-1.00	
M2PFTeDA	1.22	112	10 - 150	10.10117	10.01288	0.0883	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.76	1.89	25 - 150	1.149733	1.219727	-0.0700	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.33	114	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.87	8.23	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.44	74.5	10 - 150	9.0546	8.806458	0.2481	+/-1.00	
d3-N-MeFOSAA	4.87	83.9	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	4.87	94.4	25 - 150	9.049334	8.785462	0.2639	+/-1.00	
M2-6:2 FTS	4.63	72.0	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	4.67	81.9	25 - 200	8.5864	8.28256	0.3038	+/-1.00	
M9PFNA	1.22	120	25 - 150	8.096316	7.796514	0.2998	+/-1.00	
M2-4:2 FTS	4.57	50.9	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	2.44	63.1	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.44	48.1	25 - 150	10.11655	10.01312	0.1034	+/-1.00	
M3HFPO-DA	9.76	99.0	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	24.4	118	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	24.4	122	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP3 (25-30 ft) (23K0665-04)			Lab File ID: QQQ32298.d		Analyzed: 11/17/23 17:26			
M3PFBS	2.35	104	25 - 150	5.141067	5.154708	-0.0136	+/-1.00	
M5PFHxA	2.52	129	25 - 150	5.954533	5.896742	0.0578	+/-1.00	
M4PFHpA	2.52	153	25 - 150	6.788417	6.612394	0.1760	+/-1.00	*
M3PFHxS	2.39	145	25 - 150	6.889783	6.69831	0.1915	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.52	116	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	1.26	130	25 - 150	8.624267	8.325208	0.2991	+/-1.00	
M7PFUdA	1.26	140	25 - 150	9.078383	8.807389	0.2710	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.26	125	25 - 150	9.46635	9.254519	0.2118	+/-1.00	
M2PFTeDA	1.26	101	10 - 150	10.1104	10.01288	0.0975	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.1	2.97	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.41	114	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.04	31.3	25 - 150	4.34795	4.446487	-0.0985	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.52	94.5	10 - 150	9.0546	8.806458	0.2481	+/-1.00	
d3-N-MeFOSAA	5.04	86.8	25 - 150	8.82605	8.533981	0.2921	+/-1.00	
d5-N-EtFOSAA	5.04	87.1	25 - 150	9.049334	8.785462	0.2639	+/-1.00	
M2-6:2 FTS	4.79	67.6	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	4.84	71.5	25 - 200	8.5864	8.28256	0.3038	+/-1.00	
M9PFNA	1.26	133	25 - 150	8.096316	7.796514	0.2998	+/-1.00	
M2-4:2 FTS	4.73	56.1	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	2.52	83.8	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.52	94.0	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	10.1	145	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	25.2	129	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	25.2	157	25 - 150	9.8369	9.668704	0.1682	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP4 (0-5 ft) (23K0665-05)			Lab File ID: QQQ32299.d		Analyzed: 11/17/23 17:42			
M3PFBS	2.15	61.3	25 - 150	5.13185	5.154708	-0.0229	+/-1.00	
M5PFHxA	2.31	103	25 - 150	5.954533	5.896742	0.0578	+/-1.00	
M4PFHpA	2.31	126	25 - 150	6.779183	6.612394	0.1668	+/-1.00	
M3PFHxS	2.19	134	25 - 150	6.880533	6.69831	0.1822	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.31	107	25 - 150	7.473834	7.228673	0.2452	+/-1.00	
M6PFDA	1.15	112	25 - 150	8.615	8.325208	0.2898	+/-1.00	
M7PFUdA	1.15	99.6	25 - 150	9.069117	8.807389	0.2617	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.15	84.9	25 - 150	9.46635	9.254519	0.2118	+/-1.00	
M2PFTeDA	1.15	70.7	10 - 150	10.10117	10.01288	0.0883	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.25	4.47	25 - 150	1.14055	1.219727	-0.0792	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.21	120	25 - 150	8.122566	7.829089	0.2935	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.62	11.2	25 - 150	4.329566	4.446487	-0.1169	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.31	77.3	10 - 150	9.0546	8.806458	0.2481	+/-1.00	
d3-N-MeFOSAA	4.62	58.3	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	4.62	66.0	25 - 150	9.049334	8.785462	0.2639	+/-1.00	
M2-6:2 FTS	4.39	98.8	25 - 200	7.408183	7.170869	0.2373	+/-1.00	
M2-8:2 FTS	4.43	112	25 - 200	8.577133	8.28256	0.2946	+/-1.00	
M9PFNA	1.15	108	25 - 150	8.087033	7.796514	0.2905	+/-1.00	
M2-4:2 FTS	4.33	60.6	25 - 150	5.878817	5.828181	0.0506	+/-1.00	
d-N-MeFOSA	2.31	44.5	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.31	54.7	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	9.25	112	25 - 150	6.24435	6.155542	0.0888	+/-1.00	
d9-N-EtFOSE	23.1	74.0	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	23.1	82.2	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP4 (12-14 ft) (23K0665-06)			Lab File ID: QQQ32300.d		Analyzed: 11/17/23 17:58			
M3PFBS	2.27	105	25 - 150	5.13185	5.154708	-0.0229	+/-1.00	
M5PFHxA	2.44	110	25 - 150	5.954533	5.896742	0.0578	+/-1.00	
M4PFHpA	2.44	138	25 - 150	6.779183	6.612394	0.1668	+/-1.00	
M3PFHxS	2.31	150	25 - 150	6.880533	6.69831	0.1822	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.44	108	25 - 150	7.464567	7.228673	0.2359	+/-1.00	
M6PFDA	1.22	137	25 - 150	8.615	8.325208	0.2898	+/-1.00	
M7PFUdA	1.22	142	25 - 150	9.069117	8.807389	0.2617	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.22	118	25 - 150	9.4571	9.254519	0.2026	+/-1.00	
M2PFTeDA	1.22	93.2	10 - 150	10.10117	10.01288	0.0883	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.79	2.09	25 - 150	1.149733	1.219727	-0.0700	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.34	99.3	25 - 150	8.122566	7.829089	0.2935	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.88	15.4	25 - 150	4.329566	4.446487	-0.1169	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.44	72.0	10 - 150	9.045333	8.806458	0.2389	+/-1.00	
d3-N-MeFOSAA	4.88	85.6	25 - 150	8.816767	8.533981	0.2828	+/-1.00	
d5-N-EtFOSAA	4.88	96.0	25 - 150	9.040067	8.785462	0.2546	+/-1.00	
M2-6:2 FTS	4.64	73.9	25 - 200	7.408183	7.170869	0.2373	+/-1.00	
M2-8:2 FTS	4.69	102	25 - 200	8.577133	8.28256	0.2946	+/-1.00	
M9PFNA	1.22	110	25 - 150	8.087033	7.796514	0.2905	+/-1.00	
M2-4:2 FTS	4.58	58.0	25 - 150	5.878817	5.828181	0.0506	+/-1.00	
d-N-MeFOSA	2.44	56.8	25 - 150	9.859016	9.706333	0.1527	+/-1.00	
d-N-EtFOSA	2.44	55.2	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	9.79	112	25 - 150	6.24435	6.155542	0.0888	+/-1.00	
d9-N-EtFOSE	24.4	70.9	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	24.4	86.2	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP4 (14-16 ft) (23K0665-07)			Lab File ID: QQQ32301.d		Analyzed: 11/17/23 18:14			
M3PFBS	2.58	70.7	25 - 150	5.122617	5.154708	-0.0321	+/-1.00	
M5PFHxA	2.77	104	25 - 150	5.9453	5.896742	0.0486	+/-1.00	
M4PFHpA	2.77	120	25 - 150	6.76995	6.612394	0.1576	+/-1.00	
M3PFHxS	2.63	160	25 - 150	6.871267	6.69831	0.1730	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.77	123	25 - 150	7.464567	7.228673	0.2359	+/-1.00	
M6PFDA	1.38	138	25 - 150	8.624267	8.325208	0.2991	+/-1.00	
M7PFUdA	1.38	128	25 - 150	9.08765	8.807389	0.2803	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.38	111	25 - 150	9.484867	9.254519	0.2303	+/-1.00	
M2PFTeDA	1.38	92.3	10 - 150	10.12883	10.01288	0.1160	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	11.1	2.01	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.65	140	25 - 150	8.122566	7.829089	0.2935	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.54	5.87	25 - 150	4.329566	4.446487	-0.1169	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.77	90.5	10 - 150	9.06405	8.806458	0.2576	+/-1.00	
d3-N-MeFOSAA	5.54	101	25 - 150	8.82605	8.533981	0.2921	+/-1.00	
d5-N-EtFOSAA	5.54	101	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	5.27	180	25 - 200	7.3989	7.170869	0.2280	+/-1.00	
M2-8:2 FTS	5.32	185	25 - 200	8.5864	8.28256	0.3038	+/-1.00	
M9PFNA	1.38	127	25 - 150	8.087033	7.796514	0.2905	+/-1.00	
M2-4:2 FTS	5.20	76.2	25 - 150	5.86935	5.828181	0.0412	+/-1.00	
d-N-MeFOSA	2.77	50.8	25 - 150	9.895933	9.706333	0.1896	+/-1.00	
d-N-EtFOSA	2.77	52.0	25 - 150	10.15343	10.01312	0.1403	+/-1.00	
M3HFPO-DA	11.1	106	25 - 150	6.235083	6.155542	0.0795	+/-1.00	
d9-N-EtFOSE	27.7	77.6	25 - 150	10.11303	9.96349	0.1495	+/-1.00	
d7-N-MeFOSE	27.7	88.4	25 - 150	9.864583	9.668704	0.1959	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP4 (27.5-30 ft) (23K0665-08)			Lab File ID: QQQ32302.d		Analyzed: 11/17/23 18:30			
M3PFBS	2.36	46.0	25 - 150	5.122617	5.154708	-0.0321	+/-1.00	
M5PFHxA	2.54	86.8	25 - 150	5.954533	5.896742	0.0578	+/-1.00	
M4PFHpA	2.54	139	25 - 150	6.779183	6.612394	0.1668	+/-1.00	
M3PFHxS	2.40	138	25 - 150	6.880533	6.69831	0.1822	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.54	111	25 - 150	7.473834	7.228673	0.2452	+/-1.00	
M6PFDA	1.26	119	25 - 150	8.624267	8.325208	0.2991	+/-1.00	
M7PFUdA	1.26	117	25 - 150	9.08765	8.807389	0.2803	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.26	99.5	25 - 150	9.484867	9.254519	0.2303	+/-1.00	
M2PFTeDA	1.26	76.8	10 - 150	10.13805	10.01288	0.1252	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.2	1.47	25 - 150	1.14055	1.219727	-0.0792	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.43	103	25 - 150	8.122566	7.829089	0.2935	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.06	2.85	25 - 150	4.320384	4.446487	-0.1261	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.54	91.5	10 - 150	9.06405	8.806458	0.2576	+/-1.00	
d3-N-MeFOSAA	5.06	93.7	25 - 150	8.82605	8.533981	0.2921	+/-1.00	
d5-N-EtFOSAA	5.06	85.4	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	4.82	79.7	25 - 200	7.408183	7.170869	0.2373	+/-1.00	
M2-8:2 FTS	4.86	78.6	25 - 200	8.5864	8.28256	0.3038	+/-1.00	
M9PFNA	1.26	118	25 - 150	8.087033	7.796514	0.2905	+/-1.00	
M2-4:2 FTS	4.75	49.1	25 - 150	5.878817	5.828181	0.0506	+/-1.00	
d-N-MeFOSA	2.54	59.3	25 - 150	9.905167	9.706333	0.1988	+/-1.00	
d-N-EtFOSA	2.54	52.7	25 - 150	10.16222	10.01312	0.1491	+/-1.00	
M3HFPO-DA	10.2	84.3	25 - 150	6.24435	6.155542	0.0888	+/-1.00	
d9-N-EtFOSE	25.4	70.1	25 - 150	10.12225	9.96349	0.1588	+/-1.00	
d7-N-MeFOSE	25.4	73.4	25 - 150	9.873816	9.668704	0.2051	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Field Blank (23K0665-09)			Lab File ID: QQQ32309.d		Analyzed: 11/17/23 20:40			
M3PFBS	21.2	91.6	25 - 150	5.13185	5.154708	-0.0229	+/-1.00	
M5PFHxA	22.7	87.0	25 - 150	5.954533	5.896742	0.0578	+/-1.00	
M4PFHpA	22.7	113	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	21.5	126	25 - 150	6.889783	6.69831	0.1915	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	22.7	92.6	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	11.4	105	25 - 150	8.633533	8.325208	0.3083	+/-1.00	
M7PFUdA	11.4	110	25 - 150	9.096867	8.807389	0.2895	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	11.4	95.7	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	11.4	54.3	10 - 150	10.15658	10.01288	0.1437	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	90.8	0.565	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	21.7	92.0	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	45.4	12.8	25 - 150	4.34795	4.446487	-0.0985	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	22.7	80.3	10 - 150	9.073317	8.806458	0.2669	+/-1.00	
d3-N-MeFOSAA	45.4	61.9	25 - 150	8.835333	8.533981	0.3014	+/-1.00	
d5-N-EtFOSAA	45.4	62.8	25 - 150	9.077383	8.785462	0.2919	+/-1.00	
M2-6:2 FTS	43.2	60.2	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	43.6	63.8	25 - 200	8.595667	8.28256	0.3131	+/-1.00	
M9PFNA	11.4	106	25 - 150	8.096316	7.796514	0.2998	+/-1.00	
M2-4:2 FTS	42.6	56.1	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	22.7	68.5	25 - 150	9.905167	9.706333	0.1988	+/-1.00	
d-N-EtFOSA	22.7	56.7	25 - 150	10.17143	10.01312	0.1583	+/-1.00	
M3HFPO-DA	90.8	98.1	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	227	35.5	25 - 150	10.13147	9.96349	0.1680	+/-1.00	
d7-N-MeFOSE	227	45.3	25 - 150	9.873816	9.668704	0.2051	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30912	Laboratory ID:	BK30912-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	7.46	7.14	95.8	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.1	15.8	104	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.8	14.2	96.2	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.0	16.8	112	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	78.9	46.1	58.4	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	78.9	46.3	58.7	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	7.11	45.0 *	50 - 150
9CL-PF3ONS	7.38	6.53	88.5	50 - 150
ADONA	7.46	9.77	131	50 - 150
HFPO-DA (Gen-X)	7.89	7.45	94.4	50 - 150
N-EtFOSA	3.94	1.55	39.3 *	50 - 150
N-EtFOSAA	3.94	4.07	103	50 - 150
N-EtFOSE	39.4	32.6	82.7	50 - 150
N-MeFOSA	3.94	3.46	87.8	50 - 150
N-MeFOSAA	3.94	3.94	99.9	50 - 150
N-MeFOSE	39.4	33.3	84.5	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.02	3.79	54.0	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	3.81	4.59	120	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.77	3.85	102	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	3.79	5.06	134	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	3.94	4.88	124	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	3.71	4.01	108	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	7.89	6.11	77.4	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	7.89	1.22	15.5 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	7.89	10.8	137	50 - 150
Perfluorobutanesulfonic acid (PFBS)	3.49	3.84	110	50 - 150
Perfluorodecanoic acid (PFDA)	3.94	3.47	87.9	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.83	3.64	95.1	50 - 150
Perfluorododecanoic acid (PFDoA)	3.94	4.17	106	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30912	Laboratory ID:	BK30912-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	1.49	1.25	84.1	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.02	3.38	112	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.95	2.74	93.0	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	2.99	3.32	111	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	15.7	6.65	42.3 *	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	15.7	9.22	58.6	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	3.14	1.70	54.0	50 - 150
9CL-PF3ONS	1.47	1.22	83.2	50 - 150
ADONA	1.49	2.01	136	50 - 150
HFPO-DA (Gen-X)	1.57	1.58	101	50 - 150
N-EtFOSA	0.786	0.275	35.0 *	50 - 150
N-EtFOSAA	0.786	0.774	98.5	50 - 150
N-EtFOSE	7.86	6.81	86.7	50 - 150
N-MeFOSA	0.786	0.650	82.7	50 - 150
N-MeFOSAA	0.786	0.812	103	50 - 150
N-MeFOSE	7.86	7.16	91.2	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.40	0.749	53.6	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	0.758	0.973	128	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.750	0.932	124	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	0.754	0.780	103	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	0.786	0.954	121	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	0.739	0.756	102	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.57	0.916	58.3	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	1.57	0.447	28.4 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	1.57	1.84	117	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.695	0.795	114	50 - 150
Perfluorodecanoic acid (PFDA)	0.786	0.746	94.9	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.762	0.728	95.5	50 - 150
Perfluorododecanoic acid (PFDoA)	0.786	0.939	119	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31179	Laboratory ID:	BK31179-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	250.06 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	151	104	68.7	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	307	306	99.6	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	300	299	99.8	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	304	365	120	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	1600	1390	87.1	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	1600	1620	101	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	320	268	83.8	50 - 150
9CL-PF3ONS	150	147	98.2	50 - 150
ADONA	151	133	87.8	50 - 150
HFPO-DA (Gen-X)	160	133	83.0	50 - 150
N-EtFOSA	80.0	117	147	50 - 150
N-EtFOSAA	80.0	83.8	105	50 - 150
N-EtFOSE	800	724	90.5	50 - 150
N-MeFOSA	80.0	68.3	85.4	50 - 150
N-MeFOSAA	80.0	83.3	104	50 - 150
N-MeFOSE	800	729	91.1	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	142	117	82.4	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	77.2	66.9	86.7	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	76.4	71.1	93.1	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	76.8	84.4	110	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	80.0	89.1	111	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	75.2	71.0	94.4	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	160	150	93.8	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	160	19.6	12.2 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	160	214	134	50 - 150
Perfluorobutanesulfonic acid (PFBS)	70.8	67.8	95.8	50 - 150
Perfluorodecanoic acid (PFDA)	80.0	67.3	84.1	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	77.6	36.0	46.4 *	50 - 150
Perfluorododecanoic acid (PFDoA)	80.0	82.6	103	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31179	Laboratory ID:	BK31179-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.06 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	30.2	15.0	49.6 *	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	61.4	57.5	93.6	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	60.0	62.7	105	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	60.8	65.1	107	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	320	286	89.5	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	320	329	103	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	64.0	55.3	86.4	50 - 150
9CL-PF3ONS	29.9	27.8	93.0	50 - 150
ADONA	30.2	29.3	96.8	50 - 150
HFPO-DA (Gen-X)	32.0	35.2	110	50 - 150
N-EtFOSA	16.0	14.1	88.3	50 - 150
N-EtFOSAA	16.0	18.5	115	50 - 150
N-EtFOSE	160	126	78.6	50 - 150
N-MeFOSA	16.0	17.3	108	50 - 150
N-MeFOSAA	16.0	15.8	98.6	50 - 150
N-MeFOSE	160	132	82.4	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	28.5	24.5	86.1	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	15.4	11.5	74.8	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	15.3	15.3	100	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	15.4	18.7	122	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	16.0	19.1	119	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	15.0	14.7	97.9	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	32.0	24.1	75.5	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	32.0	3.17	9.90 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	32.0	48.4	151 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	14.2	14.6	103	50 - 150
Perfluorodecanoic acid (PFDA)	16.0	14.1	88.2	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	15.5	3.91	25.2 *	50 - 150
Perfluorododecanoic acid (PFDoA)	16.0	15.2	95.3	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31179	Laboratory ID:	BK31179-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.06 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	16.0	13.5	84.1	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	14.6	15.5	106	50 - 150
Perfluorohexanoic acid (PFHxA)	16.0	14.2	88.6	50 - 150
Perfluoro-n-butanoic acid (PFBA)	64.0	56.4	88.1	50 - 150
Perfluorononanoic acid (PFNA)	16.0	14.7	91.9	50 - 150
Perfluorooctanesulfonic acid (PFOS)	14.9	15.2	102	50 - 150
Perfluorooctanoic acid (PFOA)	16.0	15.4	96.0	50 - 150
Perfluoropentanoic acid (PFPeA)	32.0	31.1	97.1	50 - 150
Perfluorotetradecanoic acid (PFTA)	16.0	16.2	101	50 - 150
Perfluorotridecanoic acid (PFTrDA)	16.0	28.8	180 *	50 - 150
Perfluoroundecanoic acid (PFUnA)	16.0	15.1	94.3	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Calibration: SJ30009
Instrument: LCQQQ
Calibration Date: 10/02/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
11CL-PF3OUdS	0.7105157	5.72859	9.081596	1.12874		0.9999776	0.995	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.1767107	39.01332	8.281806	1.276528		0.9900164	0.995	*
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.8242061	35.589	5.82754	0.3595247		0.993617	0.995	*
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.9425926	37.0172	7.170204	1.058431		0.9893765	0.995	*
3-Perfluoroheptyl propanoic acid (FHpPA)	0.1232525	18.86516	7.922573	1.290296		0.9997601	0.995	
3-Perfluoropentyl propanoic acid (FPePA)	0.1140748	23.52091	6.666288	0.6714893		0.9999763	0.995	
3-Perfluoropropyl propanoic acid (FPrPA)	1.634509E-02	18.00515	4.160234	1.484028		0.9999391	0.995	
9CL-PF3ONS	0.9740683	8.298783	8.14971	1.314775		0.9997536	0.995	
ADONA	0.4656269	3.342766	6.734537	0.7768405		0.9999391	0.995	
d3-N-MeFOSAA	1.894852	5.832011	8.533981	1.308346			20	
d5-N-EtFOSAA	1.482855	8.987748	8.785462	1.260937			20	
d7-N-MeFOSE	0.1096943	9.538321	9.668704	0.7211339			20	
d9-N-EtFOSE	5.742301E-02	7.356046	9.96349	0.5804035			20	
d-N-EtFOSA	0.1903151	10.33302	10.01312	0.575893			20	
d-N-MeFOSA	0.2894869	9.022579	9.706333	0.7114855			20	
HFPO-DA (Gen-X)	2.388122E-02	6.411962	6.156967	0.3209652		0.9996481	0.995	
M2-4:2 FTS	6.326992	31.98058	5.828181	0.3384551			20	*
M2-6:2 FTS	4.309265	36.08813	7.170869	1.065069			20	*
M2-8:2 FTS	6.068952	33.54427	8.28256	1.286257			20	*
M2PFTeDA	1.156149	7.866873	10.01288	0.5529907			20	
M3HFPO-DA	0.2387003	12.51329	6.155542	0.3513022			20	
M3PFBS	5.185494	6.486697	5.154708	0.9019837			20	
M3PFHxS	2.736241	5.94879	6.69831	0.8015715			20	
M4PFHpA	0.2080857	7.159001	6.612394	0.6834055			20	
M5PFHxA	1.507927	3.404123	5.896742	0.3016276			20	
M6PFDA	1.287883	10.7937	8.325208	1.310789			20	
M7PFUdA	2.052925	15.49362	8.807389	1.274563			20	
M9PFNA	0.2662851	5.998683	7.796514	1.281032			20	
N-EtFOSA	1.327838	11.78257	10.02456	0.583553		0.9987898	0.995	
N-EtFOSAA	0.9484482	3.422898	8.795117	1.254374		0.9998723	0.995	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32291.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV2	Injection Time:	15:33

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	14.6	0.7105157	1.044222		54.7	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	9.94	0.1767107	0.2066847		3.5	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.47	0.8242061	0.958932		1.0	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.0	0.9425926	1.244316		16.2	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	43.9	0.1232525	0.0871615		-29.8	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	44.3	0.1140748	8.035053E-02		-29.3	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	9.38	1.634509E-02	1.132602E-02		-25.0	30
9CL-PF3ONS	A	9.35	15.1	0.9740683	1.383613		61.4	30 *
ADONA	A	9.45	13.6	0.4656269	0.6458319		44.3	30 *
HFPO-DA (Gen-X)	A	10.0	10.7	2.388122E-02	0.0238447		7.3	30
N-EtFOSA	A	2.50	1.49	1.327838	0.7319125		-40.5	30 *
N-EtFOSAA	A	2.50	2.71	0.9484482	0.9947341		8.4	30
N-EtFOSE	A	25.0	24.0	2.103058	2.069015		-3.9	30
N-MeFOSA	A	2.50	1.92	0.9774397	0.784965		-23.0	30
N-MeFOSAA	A	2.50	2.64	0.8340644	0.8443595		5.4	30
N-MeFOSE	A	25.0	22.4	1.016894	0.974882		-10.6	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	6.95	1.083962	1.747273		56.1	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	3.05	0.8640874	1.029875		26.4	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.16	2.706255	2.411266		-9.2	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.48	2.040776	2.637553		45.2	30 *
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.75	1.543242	1.639988		9.9	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.25	1.56851	1.390073		-4.5	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.70	1.750606E-02	3.371234E-02		74.1	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32291.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV2	Injection Time:	15:33

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	12.5	0.2760092	0.6962777		150	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.1	0.436862	0.9035741		103	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.35	0.9969591	1.056008		5.9	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.65	1.019014	1.151137		6.0	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.85	0.5852952	0.6944493		17.9	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.86	0.8320389	0.9182453		14.5	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.01	4.129863	3.520045		-19.4	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.44	1.223553	1.182247		6.9	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.26	1.086996	1.007507		-9.5	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	10.0	0.8644747	0.8769519		0.4	30
Perfluorononanoic acid (PFNA)	A	2.50	2.76	3.375915	3.675891		10.3	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.41	2.158758	2.09887		3.9	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.69	1.023846	1.058076		7.5	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.81	1.028127	0.9931361		-3.8	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.53	1.00277	0.9792868		1.4	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.40	1.122388	1.071133		-4.1	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.83	0.8100826	0.9042014		13.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32303.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV3	Injection Time:	18:46

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.5	0.7105157	0.8175593		21.4	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.3	0.1767107	0.2331676		18.0	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	10.3	0.8242061	1.038938		10.1	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.9	0.9425926	1.332383		25.2	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	56.5	0.1232525	0.1118607		-9.8	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	64.8	0.1140748	0.1172528		3.6	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	15.8	1.634509E-02	1.916002E-02		26.6	30	
9CL-PF3ONS	A	9.35	11.7	0.9740683	1.068784		24.8	30	
ADONA	A	9.45	10.7	0.4656269	0.5073672		13.5	30	
HFPO-DA (Gen-X)	A	10.0	11.8	2.388122E-02	2.615096E-02		17.6	30	
N-EtFOSA	A	2.50	17.1	1.327838	8.79484		583	30	*
N-EtFOSAA	A	2.50	2.69	0.9484482	0.9859023		7.5	30	
N-EtFOSE	A	25.0	23.9	2.103058	2.059501		-4.4	30	
N-MeFOSA	A	2.50	2.29	0.9774397	0.9326041		-8.5	30	
N-MeFOSAA	A	2.50	2.70	0.8340644	0.8639138		7.9	30	
N-MeFOSE	A	25.0	23.3	1.016894	1.014652		-6.9	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	8.53	1.083962	2.140415		91.7	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.82	0.8640874	0.9542207		17.1	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.59	2.706255	2.887102		8.8	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.45	2.040776	2.609141		43.6	30	*
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.89	1.543242	1.727479		15.8	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.29	1.56851	1.414837		-2.8	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	12.1	1.750606E-02	4.661251E-02		143	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32303.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV3	Injection Time:	18:46

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	12.5	0.2760092	0.6949947		150	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.6	0.436862	0.9408099		111	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.33	0.9969591	1.046677		5.0	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.45	1.019014	1.064886		-1.9	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	3.03	0.5852952	0.7376724		25.3	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.63	0.8320389	0.8423882		5.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.20	4.129863	3.840915		-12.1	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.31	1.223553	1.1191		1.2	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.27	1.086996	1.009182		-9.3	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.92	0.8644747	0.8670323		-0.8	30
Perfluorononanoic acid (PFNA)	A	2.50	2.38	3.375915	3.17543		-4.8	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.49	2.158758	2.164858		7.2	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.93	1.023846	1.151734		17.0	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.93	1.028127	1.017121		-1.5	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.71	1.00277	1.048627		8.5	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.62	1.122388	1.171737		5.0	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.44	0.8100826	0.7796897		-2.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32316.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV4	Injection Time:	22:33

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.3	0.7105157	0.8082367		20.0	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	9.73	0.1767107	0.2028065		1.4	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.90	0.8242061	0.9993767		5.6	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.5	0.9425926	1.289649		20.8	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	61.5	0.1232525	0.1217691		-1.7	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	71.4	0.1140748	0.1290241		14.1	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	16.1	1.634509E-02	0.0194502		28.5	30	
9CL-PF3ONS	A	9.35	12.5	0.9740683	1.142205		33.3	30	*
ADONA	A	9.45	11.6	0.4656269	0.5465399		22.2	30	
HFPO-DA (Gen-X)	A	10.0	12.5	2.388122E-02	2.785765E-02		25.3	30	
N-EtFOSA	A	2.50	20.8	1.327838	10.81905		732	30	*
N-EtFOSAA	A	2.50	2.86	0.9484482	1.049753		14.4	30	
N-EtFOSE	A	25.0	24.9	2.103058	2.141986		-0.6	30	
N-MeFOSA	A	2.50	2.20	0.9774397	0.8977307		-11.9	30	
N-MeFOSAA	A	2.50	2.61	0.8340644	0.8344869		4.2	30	
N-MeFOSE	A	25.0	22.3	1.016894	0.9739839		-10.6	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.05	1.083962	2.268087		103	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.54	0.8640874	0.8590265		5.4	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.38	2.706255	2.654428		-0.008	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.78	2.040776	2.104421		15.8	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.87	1.543242	1.710247		14.6	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.21	1.56851	1.37098		-5.8	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.03	1.750606E-02	3.116116E-02		60.6	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0665
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32316.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV4	Injection Time:	22:33

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	12.1	0.2760092	0.6735397		142	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.4	0.436862	0.9264849		108	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.31	0.9969591	1.035688		3.9	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.41	1.019014	1.047434		-3.6	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.23	0.5852952	0.5441656		-7.7	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.53	0.8320389	0.8119939		1.3	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.00	4.129863	3.487824		-20.1	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.52	1.223553	1.22425		10.6	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.41	1.086996	1.070616		-3.8	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.89	0.8644747	0.8640649		-1.1	30
Perfluorononanoic acid (PFNA)	A	2.50	2.45	3.375915	3.271605		-1.9	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.25	2.158758	1.957083		-3.1	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.56	1.023846	1.006992		2.4	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.97	1.028127	1.026407		-0.6	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.57	1.00277	0.9945692		3.0	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.64	1.122388	1.176407		5.4	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.79	0.8100826	0.8932292		11.7	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Matrix: Soil
Batch: BK30664
Laboratory ID: BK30664-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.		QC LIMITS REC.
Aluminum	9490	7840	82.6		45.4 - 128.6
Antimony	248	48.2	19.4		3 - 103.2
Arsenic	163	130	79.9		68.7 - 100.6
Barium	319	301	94.3		82.5 - 115.7
Beryllium	119	97.5	81.9		77.7 - 109.2
Cadmium	130	109	83.9		75.2 - 106.2
Calcium	5000	4510	90.1		80.6 - 114.4
Chromium	153	138	90.0		77.8 - 111.8
Cobalt	153	137	89.7		79.1 - 109.8
Copper	245	235	95.8		80.4 - 111
Iron	7540	7170	95.1		69.8 - 144.6
Lead	220	192	87.2		80 - 113.6
Magnesium	1980	1960	99.1		85.9 - 129.3
Manganese	431	401	93.1		79.6 - 114.2
Nickel	175	156	89.0		76.6 - 108.6
Potassium	1570	1600	102		80.9 - 131.2
Selenium	156	150	96.4		80.8 - 118.6
Silver	82.9	52.0	62.7	*	76.7 - 114.7
Sodium	453	980	216	*	72.2 - 119.7
Thallium	99.4	80.7	81.2		75.8 - 110.7
Vanadium	170	146	86.0		75.3 - 114.1
Zinc	201	342	170	*	79.6 - 115.92

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Matrix: Soil
Batch: BK30823
Laboratory ID: BK30823-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.		QC LIMITS REC.
Aluminum	9490	7540	79.4		45.4 - 128.6
Antimony	248	51.3	20.7		3 - 103.2
Arsenic	163	122	75.0		68.7 - 100.6
Barium	319	285	89.3		82.5 - 115.7
Beryllium	119	95.2	80.0		77.7 - 109.2
Cadmium	130	103	79.2		75.2 - 106.2
Calcium	5000	4260	85.2		80.6 - 114.4
Chromium	153	130	84.6		77.8 - 111.8
Cobalt	153	131	85.5		79.1 - 109.8
Copper	245	223	90.9		80.4 - 111
Iron	7540	6760	89.6		69.8 - 144.6
Lead	220	184	83.4		80 - 113.6
Magnesium	1980	1850	93.5		85.9 - 129.3
Manganese	431	365	84.6		79.6 - 114.2
Nickel	175	149	84.9		76.6 - 108.6
Potassium	1570	1440	91.8		80.9 - 131.2
Selenium	156	139	89.4		80.8 - 118.6
Silver	82.9	43.7	52.7	*	76.7 - 114.7
Sodium	453	949	209	*	72.2 - 119.7
Thallium	99.4	75.3	75.7	*	75.8 - 110.7
Vanadium	170	137	80.5		75.3 - 114.1
Zinc	201	318	158	*	79.6 - 115.92

* Values outside of QC limits

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Instrument ID: AvioICP
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1604
Calibration: 11/15/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BK30664-BLK1	Aluminum	1.56	4.17	mg/kg wet		EPA 6010D
	Antimony	-0.077	2.08	mg/kg wet		EPA 6010D
	Arsenic	0.186	1.25	mg/kg wet		EPA 6010D
	Barium	0.062	2.08	mg/kg wet		EPA 6010D
	Beryllium	-0.031	0.042	mg/kg wet		EPA 6010D
	Cadmium	0.018	0.250	mg/kg wet		EPA 6010D
	Calcium	45.2	4.17	mg/kg wet	*	EPA 6010D
	Chromium	0.009	0.417	mg/kg wet		EPA 6010D
	Cobalt	0.019	0.333	mg/kg wet		EPA 6010D
	Copper	0.199	1.67	mg/kg wet		EPA 6010D
	Iron	3.06	20.8	mg/kg wet		EPA 6010D
	Lead	0.026	0.417	mg/kg wet		EPA 6010D
	Magnesium	0.193	4.17	mg/kg wet		EPA 6010D
	Manganese	0.043	0.417	mg/kg wet		EPA 6010D
	Nickel	0.395	0.830	mg/kg wet		EPA 6010D
	Potassium	-2.68	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.296	2.08	mg/kg wet		EPA 6010D
	Silver	0.042	0.420	mg/kg wet		EPA 6010D
	Sodium	34.7	41.7	mg/kg wet		EPA 6010D
	Thallium	0.145	2.08	mg/kg wet		EPA 6010D
	Vanadium	0.025	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.113	2.08	mg/kg wet		EPA 6010D
S3K1604-CCB9	Aluminum	-0.0009	0.050	ug/mL		EPA 6010D
	Antimony	0.005	0.025	ug/mL		EPA 6010D
	Arsenic	-0.0009	0.015	ug/mL		EPA 6010D
	Barium	-0.00003	0.025	ug/mL		EPA 6010D
	Beryllium	-0.0004	0.0005	ug/mL		EPA 6010D
	Cadmium	0.0003	0.003	ug/mL		EPA 6010D
	Calcium	0.002	0.050	ug/mL		EPA 6010D
	Chromium	0.0002	0.005	ug/mL		EPA 6010D
	Cobalt	0.0001	0.004	ug/mL		EPA 6010D
	Copper	-0.0007	0.020	ug/mL		EPA 6010D
	Iron	0.002	0.250	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Instrument ID: AvioICP
Project: 220293 100 East 149th St. Bronx, NY
Sequence: S3K1714
Calibration: 11/17/23 0

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3K1714-CCB1	Lead	-0.0006	0.005	ug/mL		EPA 6010D
	Magnesium	0.002	0.050	ug/mL		EPA 6010D
	Manganese	-0.00008	0.005	ug/mL		EPA 6010D
	Nickel	0.0009	0.010	ug/mL		EPA 6010D
	Potassium	-0.005	0.050	ug/mL		EPA 6010D
	Selenium	-0.003	0.025	ug/mL		EPA 6010D
	Silver	0.0003	0.005	ug/mL		EPA 6010D
	Sodium	-0.001	0.500	ug/mL		EPA 6010D
	Thallium	-0.001	0.025	ug/mL		EPA 6010D
	Vanadium	0.0006	0.010	ug/mL		EPA 6010D
	Zinc	-0.00006	0.025	ug/mL		EPA 6010D
BK30823-BLK1	Aluminum	0.278	4.17	mg/kg wet		EPA 6010D
	Antimony	0.042	2.08	mg/kg wet		EPA 6010D
	Arsenic	0.200	1.25	mg/kg wet		EPA 6010D
	Barium	-0.007	2.08	mg/kg wet		EPA 6010D
	Beryllium	0.020	0.042	mg/kg wet		EPA 6010D
	Cadmium	0.005	0.250	mg/kg wet		EPA 6010D
	Calcium	10.8	4.17	mg/kg wet	*	EPA 6010D
	Chromium	0.050	0.417	mg/kg wet		EPA 6010D
	Cobalt	-0.031	0.333	mg/kg wet		EPA 6010D
	Copper	0.002	1.67	mg/kg wet		EPA 6010D
	Iron	0.136	20.8	mg/kg wet		EPA 6010D
	Lead	-0.012	0.417	mg/kg wet		EPA 6010D
	Magnesium	-0.229	4.17	mg/kg wet		EPA 6010D
	Manganese	0.001	0.417	mg/kg wet		EPA 6010D
	Nickel	0.099	0.830	mg/kg wet		EPA 6010D
	Potassium	0.681	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.392	2.08	mg/kg wet		EPA 6010D
	Silver	-0.106	0.420	mg/kg wet		EPA 6010D
	Sodium	9.41	41.7	mg/kg wet		EPA 6010D
	Thallium	0.071	2.08	mg/kg wet		EPA 6010D
	Vanadium	0.014	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.031	2.08	mg/kg wet		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1604-ICV1	Aluminum	10.0	9.85	98.5	ug/mL	EPA 6010D
	Antimony	0.250	0.253	101	ug/mL	EPA 6010D
	Arsenic	0.250	0.253	101	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.252	101	ug/mL	EPA 6010D
	Cadmium	0.125	0.130	104	ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.5	ug/mL	EPA 6010D
	Chromium	1.00	0.985	98.5	ug/mL	EPA 6010D
	Cobalt	2.50	2.51	100	ug/mL	EPA 6010D
	Copper	1.25	1.24	99.4	ug/mL	EPA 6010D
	Iron	5.00	5.09	102	ug/mL	EPA 6010D
	Lead	0.250	0.263	105	ug/mL	EPA 6010D
	Magnesium	25.0	25.4	101	ug/mL	EPA 6010D
	Manganese	2.50	2.53	101	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Potassium	25.0	24.9	99.7	ug/mL	EPA 6010D
	Selenium	0.250	0.271	109	ug/mL	EPA 6010D
	Silver	1.25	1.23	98.6	ug/mL	EPA 6010D
	Sodium	25.0	25.2	101	ug/mL	EPA 6010D
	Thallium	0.250	0.283	113 *	ug/mL	EPA 6010D
	Vanadium	2.50	2.50	100	ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.7	ug/mL	EPA 6010D
S3K1604-CCV1	Aluminum	10.0	10.2	102	ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.5 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.496	99.2	ug/mL	EPA 6010D
	Barium	10.0	10.4	104	ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100	ug/mL	EPA 6010D
	Calcium	25.0	25.5	102	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102	ug/mL	EPA 6010D
	Copper	1.25	1.27	101	ug/mL	EPA 6010D
	Iron	5.00	5.20	104	ug/mL	EPA 6010D
	Lead	0.500	0.505	101	ug/mL	EPA 6010D
	Magnesium	25.0	25.9	104	ug/mL	EPA 6010D
	Manganese	2.50	2.58	103	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1604-CCV9	Cobalt	2.50	2.57	103	ug/mL	EPA 6010D
	Copper	1.25	1.28	102	ug/mL	EPA 6010D
	Iron	5.00	5.11	102	ug/mL	EPA 6010D
	Lead	0.500	0.506	101	ug/mL	EPA 6010D
	Magnesium	25.0	25.4	101	ug/mL	EPA 6010D
	Manganese	2.50	2.56	103	ug/mL	EPA 6010D
	Nickel	2.50	2.60	104	ug/mL	EPA 6010D
	Potassium	5.00	5.35	107	ug/mL	EPA 6010D
	Selenium	0.500	0.515	103	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Sodium	25.0	26.5	106	ug/mL	EPA 6010D
	Thallium	0.500	0.514	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101	ug/mL	EPA 6010D
	Zinc	2.50	2.53	101	ug/mL	EPA 6010D
S3K1604-CCVA	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D
	Antimony	0.250	0.204	81.6 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.490	97.9	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.257	103	ug/mL	EPA 6010D
	Cadmium	0.250	0.251	101	ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.7	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102	ug/mL	EPA 6010D
	Copper	1.25	1.28	102	ug/mL	EPA 6010D
	Iron	5.00	5.13	103	ug/mL	EPA 6010D
	Lead	0.500	0.498	99.6	ug/mL	EPA 6010D
	Magnesium	25.0	25.3	101	ug/mL	EPA 6010D
	Manganese	2.50	2.56	102	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D
	Potassium	5.00	5.32	106	ug/mL	EPA 6010D
	Selenium	0.500	0.509	102	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Sodium	25.0	25.8	103	ug/mL	EPA 6010D
	Thallium	0.500	0.510	102	ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101	ug/mL	EPA 6010D
	Zinc	2.50	2.51	100	ug/mL	EPA 6010D
S3K1604-CCVB	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/15/23
Control Limt: +/- 10.00%
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K1604-CCVB	Antimony	0.250	0.201	80.6	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.492	98.4		ug/mL	EPA 6010D
	Barium	10.0	10.3	103		ug/mL	EPA 6010D
	Beryllium	0.250	0.257	103		ug/mL	EPA 6010D
	Cadmium	0.250	0.251	100		ug/mL	EPA 6010D
	Calcium	25.0	24.9	99.7		ug/mL	EPA 6010D
	Chromium	1.00	1.01	101		ug/mL	EPA 6010D
	Cobalt	2.50	2.55	102		ug/mL	EPA 6010D
	Copper	1.25	1.28	103		ug/mL	EPA 6010D
	Iron	5.00	5.13	103		ug/mL	EPA 6010D
	Lead	0.500	0.496	99.3		ug/mL	EPA 6010D
	Magnesium	25.0	25.5	102		ug/mL	EPA 6010D
	Manganese	2.50	2.56	102		ug/mL	EPA 6010D
	Nickel	2.50	2.57	103		ug/mL	EPA 6010D
	Potassium	5.00	5.41	108		ug/mL	EPA 6010D
	Selenium	0.500	0.509	102		ug/mL	EPA 6010D
	Silver	1.25	1.26	101		ug/mL	EPA 6010D
	Sodium	25.0	26.0	104		ug/mL	EPA 6010D
	Thallium	0.500	0.512	102		ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101		ug/mL	EPA 6010D
	Zinc	2.50	2.50	99.9		ug/mL	EPA 6010D

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/16/23
Control Limt: +/- 10.00%
Sequence: S3K1702

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1702-ICV1	Aluminum	10.0	9.83	98.3	ug/mL	EPA 6010D
	Antimony	0.250	0.252	101	ug/mL	EPA 6010D
	Arsenic	0.250	0.250	100	ug/mL	EPA 6010D
	Barium	10.0	10.1	101	ug/mL	EPA 6010D
	Beryllium	0.250	0.248	99.0	ug/mL	EPA 6010D
	Cadmium	0.125	0.131	105	ug/mL	EPA 6010D
	Calcium	25.0	24.8	99.1	ug/mL	EPA 6010D
	Chromium	1.00	0.988	98.8	ug/mL	EPA 6010D
	Cobalt	2.50	2.52	101	ug/mL	EPA 6010D
	Copper	1.25	1.24	99.3	ug/mL	EPA 6010D
	Iron	5.00	4.95	99.0	ug/mL	EPA 6010D
	Lead	0.250	0.262	105	ug/mL	EPA 6010D
	Magnesium	25.0	24.5	98.0	ug/mL	EPA 6010D
	Manganese	2.50	2.51	100	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Potassium	25.0	24.5	97.9	ug/mL	EPA 6010D
	Selenium	0.250	0.261	104	ug/mL	EPA 6010D
	Silver	1.25	1.23	98.5	ug/mL	EPA 6010D
	Sodium	25.0	24.6	98.4	ug/mL	EPA 6010D
	Thallium	0.250	0.283	113 *	ug/mL	EPA 6010D
	Vanadium	2.50	2.46	98.5	ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.7	ug/mL	EPA 6010D
S3K1702-CCV1	Aluminum	10.0	10.0	100	ug/mL	EPA 6010D
	Antimony	0.250	0.222	88.8 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.500	100	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.254	101	ug/mL	EPA 6010D
	Cadmium	0.250	0.254	102	ug/mL	EPA 6010D
	Calcium	25.0	25.1	100	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102	ug/mL	EPA 6010D
	Copper	1.25	1.28	102	ug/mL	EPA 6010D
	Iron	5.00	5.08	102	ug/mL	EPA 6010D
	Lead	0.500	0.508	102	ug/mL	EPA 6010D
	Magnesium	25.0	25.2	101	ug/mL	EPA 6010D
	Manganese	2.50	2.54	102	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/16/23
Control Limt: +/- 10.00%
Sequence: S3K1702

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K1702-CCV1	Potassium	5.00	5.06	101		ug/mL	EPA 6010D
	Selenium	0.500	0.508	102		ug/mL	EPA 6010D
	Silver	1.25	1.27	102		ug/mL	EPA 6010D
	Sodium	25.0	24.8	99.3		ug/mL	EPA 6010D
	Thallium	0.500	0.510	102		ug/mL	EPA 6010D
	Vanadium	2.50	2.48	99.3		ug/mL	EPA 6010D
	Zinc	2.50	2.49	99.7		ug/mL	EPA 6010D
S3K1702-CCV6	Aluminum	10.0	10.3	103		ug/mL	EPA 6010D
	Antimony	0.250	0.215	86.1	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.509	102		ug/mL	EPA 6010D
	Barium	10.0	10.4	104		ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104		ug/mL	EPA 6010D
	Cadmium	0.250	0.261	105		ug/mL	EPA 6010D
	Calcium	25.0	25.7	103		ug/mL	EPA 6010D
	Chromium	1.00	1.03	103		ug/mL	EPA 6010D
	Cobalt	2.50	2.63	105		ug/mL	EPA 6010D
	Copper	1.25	1.31	104		ug/mL	EPA 6010D
	Iron	5.00	5.22	104		ug/mL	EPA 6010D
	Lead	0.500	0.518	104		ug/mL	EPA 6010D
	Magnesium	25.0	25.7	103		ug/mL	EPA 6010D
	Manganese	2.50	2.60	104		ug/mL	EPA 6010D
	Nickel	2.50	2.65	106		ug/mL	EPA 6010D
	Potassium	5.00	5.24	105		ug/mL	EPA 6010D
	Selenium	0.500	0.516	103		ug/mL	EPA 6010D
	Silver	1.25	1.30	104		ug/mL	EPA 6010D
	Sodium	25.0	24.5	97.9		ug/mL	EPA 6010D
	Thallium	0.500	0.515	103		ug/mL	EPA 6010D
	Vanadium	2.50	2.53	101		ug/mL	EPA 6010D
	Zinc	2.50	2.54	102		ug/mL	EPA 6010D
S3K1702-CCV7	Aluminum	10.0	10.3	103		ug/mL	EPA 6010D
	Antimony	0.250	0.217	86.9	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.506	101		ug/mL	EPA 6010D
	Barium	10.0	10.4	104		ug/mL	EPA 6010D
	Beryllium	0.250	0.259	103		ug/mL	EPA 6010D
	Cadmium	0.250	0.260	104		ug/mL	EPA 6010D
	Calcium	25.0	25.7	103		ug/mL	EPA 6010D
	Chromium	1.00	1.02	102		ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/16/23
Control Limt: +/- 10.00%
Sequence: S3K1702

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1702-CCV7	Cobalt	2.50	2.61	104	ug/mL	EPA 6010D
	Copper	1.25	1.30	104	ug/mL	EPA 6010D
	Iron	5.00	5.21	104	ug/mL	EPA 6010D
	Lead	0.500	0.516	103	ug/mL	EPA 6010D
	Magnesium	25.0	25.8	103	ug/mL	EPA 6010D
	Manganese	2.50	2.60	104	ug/mL	EPA 6010D
	Nickel	2.50	2.64	106	ug/mL	EPA 6010D
	Potassium	5.00	5.13	103	ug/mL	EPA 6010D
	Selenium	0.500	0.522	104	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Sodium	25.0	25.3	101	ug/mL	EPA 6010D
	Thallium	0.500	0.516	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101	ug/mL	EPA 6010D
	Zinc	2.50	2.51	100	ug/mL	EPA 6010D
S3K1702-CCV8	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.5 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.500	100	ug/mL	EPA 6010D
	Barium	10.0	10.5	105	ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.259	104	ug/mL	EPA 6010D
	Calcium	25.0	25.7	103	ug/mL	EPA 6010D
	Chromium	1.00	1.03	103	ug/mL	EPA 6010D
	Cobalt	2.50	2.61	104	ug/mL	EPA 6010D
	Copper	1.25	1.31	105	ug/mL	EPA 6010D
	Iron	5.00	5.26	105	ug/mL	EPA 6010D
	Lead	0.500	0.512	102	ug/mL	EPA 6010D
	Magnesium	25.0	25.9	104	ug/mL	EPA 6010D
	Manganese	2.50	2.61	104	ug/mL	EPA 6010D
	Nickel	2.50	2.64	106	ug/mL	EPA 6010D
	Potassium	5.00	5.17	103	ug/mL	EPA 6010D
	Selenium	0.500	0.513	103	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Sodium	25.0	25.2	101	ug/mL	EPA 6010D
	Thallium	0.500	0.509	102	ug/mL	EPA 6010D
	Vanadium	2.50	2.53	101	ug/mL	EPA 6010D
	Zinc	2.50	2.51	100	ug/mL	EPA 6010D

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1604-IFA1	Aluminum	500	528.64	106	ug/mL
	Antimony		0.00		ug/mL
	Arsenic		0.01		ug/mL
	Barium		0.10		ug/mL
	Beryllium		0.00		ug/mL
	Cadmium		0.00		ug/mL
	Calcium	500	488.71	97.7	ug/mL
	Chromium		0.00		ug/mL
	Cobalt		0.00		ug/mL
	Copper		0.00		ug/mL
	Iron	200	181.99	91.0	ug/mL
	Lead		0.00		ug/mL
	Magnesium	500	509.71	102	ug/mL
	Manganese		0.00		ug/mL
	Nickel		0.00		ug/mL
	Potassium		-0.11		ug/mL
	Selenium		0.03		ug/mL
	Silver		0.00		ug/mL
	Sodium		-1.35		ug/mL
	Thallium		-0.01		ug/mL
	Vanadium		0.00		ug/mL
	Zinc		0.00		ug/mL
S3K1604-IFB1	Aluminum	500	530.42	106	ug/mL
	Antimony	0.500	0.44	88.6	ug/mL
	Arsenic	0.500	0.52	104	ug/mL
	Barium	0.500	0.61	122 *	ug/mL
	Beryllium	0.500	0.46	91.9	ug/mL
	Cadmium	1.00	0.93	93.2	ug/mL
	Calcium	500	491.63	98.3	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/15/23
Sequence: S3K1604

Lab Sample ID	Analyte	True	Found	%R	Units
S3K1604-IFB1	Chromium	0.500	0.49	97.4	ug/mL
	Cobalt	0.500	0.46	92.7	ug/mL
	Copper	0.500	0.55	110	ug/mL
	Iron	200	182.27	91.1	ug/mL
	Lead	1.00	0.92	92.2	ug/mL
	Magnesium	500	510.15	102	ug/mL
	Manganese	0.500	0.50	100	ug/mL
	Nickel	1.00	0.90	90.4	ug/mL
	Potassium		-0.10		ug/mL
	Selenium	0.500	0.54	108	ug/mL
	Silver	1.00	1.11	111	ug/mL
	Sodium		3.98		ug/mL
	Thallium	0.500	0.44	87.1	ug/mL
	Vanadium	0.500	0.50	99.4	ug/mL
	Zinc	1.00	1.24	124 *	ug/mL

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D/1311

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0665
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 12/22/23
Control Limt: +/- 10.00%
Sequence: S3L2228

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3L2228-ICV1	Arsenic	0.250	0.236	94.4	ug/mL	EPA 6010D/1311
	Barium	10.0	10.3	103	ug/mL	EPA 6010D/1311
	Cadmium	0.125	0.125	99.8	ug/mL	EPA 6010D/1311
	Chromium	1.00	0.999	99.9	ug/mL	EPA 6010D/1311
	Lead	0.250	0.251	101	ug/mL	EPA 6010D/1311
	Selenium	0.250	0.255	102	ug/mL	EPA 6010D/1311
	Silver	1.25	1.23	98.8	ug/mL	EPA 6010D/1311
S3L2228-CCV1	Arsenic	0.500	0.521	104	ug/mL	EPA 6010D/1311
	Barium	10.0	10.4	104	ug/mL	EPA 6010D/1311
	Cadmium	0.250	0.265	106	ug/mL	EPA 6010D/1311
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D/1311
	Lead	0.500	0.535	107	ug/mL	EPA 6010D/1311
	Selenium	0.500	0.537	107	ug/mL	EPA 6010D/1311
	Silver	1.25	1.27	102	ug/mL	EPA 6010D/1311
S3L2228-CCV5	Arsenic	0.500	0.545	109	ug/mL	EPA 6010D/1311
	Barium	10.0	10.8	108	ug/mL	EPA 6010D/1311
	Cadmium	0.250	0.274	110	ug/mL	EPA 6010D/1311
	Chromium	1.00	1.06	106	ug/mL	EPA 6010D/1311
	Lead	0.500	0.554	111 *	ug/mL	EPA 6010D/1311
	Selenium	0.500	0.553	111 *	ug/mL	EPA 6010D/1311
	Silver	1.25	1.33	107	ug/mL	EPA 6010D/1311
S3L2228-CCV7	Arsenic	0.500	0.486	97.2	ug/mL	EPA 6010D/1311
	Barium	10.0	9.69	96.9	ug/mL	EPA 6010D/1311
	Cadmium	0.250	0.246	98.3	ug/mL	EPA 6010D/1311
	Chromium	1.00	0.947	94.7	ug/mL	EPA 6010D/1311
	Lead	0.500	0.496	99.1	ug/mL	EPA 6010D/1311
	Selenium	0.500	0.491	98.3	ug/mL	EPA 6010D/1311
	Silver	1.25	1.20	95.7	ug/mL	EPA 6010D/1311

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: **23K0672**
4 Soil Samples

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K0672 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K0672, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/2/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 07, 2023
SAMPLE TYPE:	4 soil samples
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K0672

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 4 soil samples collected on November 07, 2023. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), 1,4-Dioxane, PFASs, Pesticides, PCBs, Metals, Hexavalnet Chromium (Cr+6), and Total Cyanide (TCN).

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K0672. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Tables 6-1 through 6-9. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K0672, four samples were analyzed and results were reported for 972 analytes. Twelve results were rejected. Even though some results were flagged with a "J" as estimated, all other results (98.8 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP2 (0-2.5ft) 23SP2 (15-17.5ft) 23SP2 (18-20ft) 23SP2 (27.5-30ft)	1,4-Dioxane	J detects R non-detects	ICAL RF < 0.005	Since all results are non-detect, the results are rejected
23SP2 (15-17.5ft) 23SP2 (15-17.5ft) RE 23SP2 (15-17.5ft) RE2	All analytes	J detects UJ non-detects	Surr rec for 1,2-DCEd4 < QC limits	Data are estimated
23SP2 (15-17.5ft)	All analytes	J detects UJ non-detects	All Int Std areas < QC limits	Data are estimated
All samples	Acetone	J detects UJ non-detects	ICV % D > 30 %	Data are estimated
23SP2 (15-17.5ft) 23SP2 (27.5-30ft)	2-Butanone 2-Hexanone Bromoform	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated
23SP2 (15-17.5ft) 23SP2 (27.5-30ft)	DBCP 4-Methyl-2-pentanone Bromodichloromethane Chloromethane Dibromochloromethane Dichlorodifluormethane TBA trans-1,3-Dichloropropene trans-1,4-Dichloro-2-butene Vinyl chloride	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated

23SP2 (18-20ft)	DBCP 2-Butanone 2-Hexanone	J detects UJ non-detects	CCV RF < QC limits	Data are estimated
23SP2 (18-20ft)	4-Methyl-2-pentanone Bromodichloromethane Chloromethane Dibromochloromethane Dichlorodifluormethane Methylacetate TBA trans-1,3-Dichloropropene trans-1,4-Dichloro-2-butene Vinyl chloride	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-2 SVOCs - Scan

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All soil samples	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	J detects R non-detects	CCV % D > 90 %	Since all results are non-detect, the results are rejected
All soil samples	2,4-Dinitrotoluene 2,6-Dinitrotoluene Benzoic acid Bis(2-chloroisopropyl)ether Di-n-octyl phthalate Hexachlorocyclopentadiene NDMA	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-3 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP2 (0-2.5ft) 23SP2 (27.5-30ft)	PFBS	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
23SP2 (15-17.5ft) 23SP2 (18-20ft)	PFBS PFPeA	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
All soil samples	8:2 FTS 4:2 FTS 6:2 FTS	J detects UJ non-detects	ICAL Qual COD < 0.995	Data are estimated
All soil samples	FPrPA 9CL-PF3ONS N-EtFOSA PFEESA NFDHA PFMPA PFMBA	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated
23SP2 (0-2.5ft) 23SP2 (15-17.5ft)	PFNS	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-5 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP2 (0-2.5ft)	a-Chlordane g-Chlordane	J J	%D for 2nd column confirmation > 25%	Data are estimated

Table 6-6 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 ICP Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All soil samples	Ag and Tl	J- detects UJ non-detects	SRM rec < QC limit	Data are biased low
All soil samples	Na and Zn	J+ detects	SRM rec > QC limit	Data are biased high
All soil samples	Sb	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low

Table 6-8 Mercury

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-9 Cr+6 and TCN

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/19/2023
Client Project ID: 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0672

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Work Order Narrative

York Analytical Work Order No.: 23K0672

Client : Touchstone Environmental Geology, PC

Client Project ID : 100 East 149th St. Bronx, NY

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/09/2023 6:15 PM

4 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{1.7}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23SP2 (0-2.5)	23K0672-01	Soil	11/07/2023 1:15 PM	11/09/2023 6:15 PM
23SP2 (15-17.5)	23K0672-02	Soil	11/07/2023 1:30 PM	11/09/2023 6:15 PM
23SP2 (18-20)	23K0672-03	Soil	11/07/2023 2:00 PM	11/09/2023 6:15 PM
23SP2 (27.5-30)	23K0672-04	Soil	11/07/2023 2:30 PM	11/09/2023 6:15 PM

WorkOrder Comments

2.0 Methodology

Analysis Class	Preparation Method	Analysis Methodology
VOA	EPA 5035A	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D SIM
PFAS	EPA 1633 Prep	EPA 1633 Draft 3
PEST	EPA 3550C	EPA 8081B
ARO	EPA 3550C	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	Analysis Preparation	Calculation
WET	EPA SW846-3060	EPA 7196A
WET	Analysis Preparation Soil	EPA 9014/9010C
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23I0672

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number

YOUR Project Name: 100 E. 149th. St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)**

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Firat Atamaz

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP2 (0-2.5)	S	11/7/23 1:15	TCL + 10 VOCs and TICs EPA 8260C	2 8oz Jars	
23SP2 (15-17.5)		1:30	TCL + 20 SVOCs and TICs, Pesticides	4 vials	
23SP2 (18-20)		2:00	and PCBs, 21 PFAS compounds,	1 Pfas	
23SP2 (27.5-30)		2:30	method 1633, 1,4 dioxane		
			EPA 8270 SIM, full TAL		
			metals list + Cyanide and		
			hexavalent chromium		

Comments: TEMP Cubes frozen at PL4 KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/9/23 220 PM	KBathyork	11/9/23 220 PM	KBathyork	11/9/23 18:15
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/9/23 18:15 1.7 Degrees C

162 of 2361

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
CLASS: VOA
METHOD: EPA 8260D

DATA PACKAGE COVER PAGE

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (15-17.5)	23K0672-02RE1
23SP2 (15-17.5)	23K0672-02RE2
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID: V11C013061.D

Sampled: 11/07/23 13:15 Prepared: 11/13/23 09:00 Analyzed: 11/13/23 17:21

Solids: 89.76 Preparation: EPA 5035A Initial/Final: 5.51 g / 5 ml

Batch: BK30785 Sequence: S3K1424 Calibration: SJ30021 Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0051	U	
71-55-6	1,1,1-Trichloroethane	1	0.0051	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0051	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0051	U	
79-00-5	1,1,2-Trichloroethane	1	0.0051	U	
75-34-3	1,1-Dichloroethane	1	0.0051	U	
75-35-4	1,1-Dichloroethylene	1	0.0051	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0051	U	
96-18-4	1,2,3-Trichloropropane	1	0.0051	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0051	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.061		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0051	U	
106-93-4	1,2-Dibromoethane	1	0.0051	U	
95-50-1	1,2-Dichlorobenzene	1	0.0051	U	
107-06-2	1,2-Dichloroethane	1	0.0051	U	
78-87-5	1,2-Dichloropropane	1	0.0051	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.023		
541-73-1	1,3-Dichlorobenzene	1	0.0051	U	
106-46-7	1,4-Dichlorobenzene	1	0.0051	U	
123-91-1	1,4-Dioxane	1	~~0.10~~	U	R
78-93-3	2-Butanone	1	0.0051	U	
591-78-6	2-Hexanone	1	0.0051	U	
108-10-1	4-Methyl-2-pentanone	1	0.0051	U	
67-64-1	Acetone	1	0.010	U	UJ
107-02-8	Acrolein	1	0.010	U	
107-13-1	Acrylonitrile	1	0.0051	U	
71-43-2	Benzene	1	0.0075		
74-97-5	Bromochloromethane	1	0.0051	U	
75-27-4	Bromodichloromethane	1	0.0051	U	
75-25-2	Bromoform	1	0.0051	U	
74-83-9	Bromomethane	1	0.0051	U	
75-15-0	Carbon disulfide	1	0.0051	U	
56-23-5	Carbon tetrachloride	1	0.0051	U	
108-90-7	Chlorobenzene	1	0.0051	U	
75-00-3	Chloroethane	1	0.0051	U	
67-66-3	Chloroform	1	0.0051	U	
74-87-3	Chloromethane	1	0.0051	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0051	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0051	U	
110-82-7	Cyclohexane	1	0.049		

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-01 | File ID: V11C013061.D

Sampled: 11/07/23 13:15 | Prepared: 11/13/23 09:00 | Analyzed: 11/13/23 17:21

Solids: 89.76 | Preparation: EPA 5035A | Initial/Final: 5.51 g / 5 ml

Batch: BK30785 | Sequence: S3K1424 | Calibration: SJ30021 | Instrument: VOA#11

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
124-48-1	Dibromochloromethane	1	0.0051	U
74-95-3	Dibromomethane	1	0.0051	U
75-71-8	Dichlorodifluoromethane	1	0.0051	U
100-41-4	Ethyl Benzene	1	0.12	
87-68-3	Hexachlorobutadiene	1	0.0051	U
98-82-8	Isopropylbenzene	1	0.012	
79-20-9	Methyl acetate	1	0.0051	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0051	U
108-87-2	Methylcyclohexane	1	0.081	
75-09-2	Methylene chloride	1	0.010	U
104-51-8	n-Butylbenzene	1	0.0037	J
103-65-1	n-Propylbenzene	1	0.031	
95-47-6	o-Xylene	1	0.0043	J
179601-23-1	p- & m- Xylenes	1	0.038	
99-87-6	p-Isopropyltoluene	1	0.0051	U
135-98-8	sec-Butylbenzene	1	0.0051	U
100-42-5	Styrene	1	0.0051	U
75-65-0	tert-Butyl alcohol (TBA)	1	0.0051	U
98-06-6	tert-Butylbenzene	1	0.0051	U
127-18-4	Tetrachloroethylene	1	0.0051	U
108-88-3	Toluene	1	0.0080	
156-60-5	trans-1,2-Dichloroethylene	1	0.0051	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.0051	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.0051	U
79-01-6	Trichloroethylene	1	0.0051	U
75-69-4	Trichlorofluoromethane	1	0.0051	U
75-01-4	Vinyl Chloride	1	0.0051	U
1330-20-7	Xylenes, Total	1	0.042	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	46.5	93.1	77 - 125	
SURR: Toluene-d8	50.0	51.9	104	85 - 120	
SURR: p-Bromofluorobenzene	50.0	47.9	95.8	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	92154	6.271	73649	6.269	
ISTD: Chlorobenzene-d5	340738	9.329	305562	9.33	
ISTD: 1,2-Dichlorobenzene-d4	143390	12.335	132718	12.336	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID: V3178170.D

Sampled: 11/07/23 13:30 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 13:57

Solids: 66.43 Preparation: EPA 5035A Initial/Final: 6.39 g / 5 ml

Batch: BK30860 Sequence: S3K1515 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0059	U	UJ
71-55-6	1,1,1-Trichloroethane	1	0.0059	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0059	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0059	U	
79-00-5	1,1,2-Trichloroethane	1	0.0059	U	
75-34-3	1,1-Dichloroethane	1	0.0059	U	
75-35-4	1,1-Dichloroethylene	1	0.0059	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0059	U	
96-18-4	1,2,3-Trichloropropane	1	0.0059	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0059	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0059	U	
106-93-4	1,2-Dibromoethane	1	0.0059	U	
95-50-1	1,2-Dichlorobenzene	1	0.0059	U	
107-06-2	1,2-Dichloroethane	1	0.0059	U	
78-87-5	1,2-Dichloropropane	1	0.0059	U	
541-73-1	1,3-Dichlorobenzene	1	0.0059	U	
106-46-7	1,4-Dichlorobenzene	1	0.0059	U	
123-91-1	1,4-Dioxane	1	~~0.12~~	U	R
78-93-3	2-Butanone	1	0.013		J
591-78-6	2-Hexanone	1	0.0059	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0059	U	UJ
67-64-1	Acetone	1	0.066		J
107-02-8	Acrolein	1	0.012	U	UJ
107-13-1	Acrylonitrile	1	0.0059	U	UJ
71-43-2	Benzene	1	0.018		J
74-97-5	Bromochloromethane	1	0.0059	U	UJ
75-27-4	Bromodichloromethane	1	0.0059	U	
75-25-2	Bromoform	1	0.0059	U	
74-83-9	Bromomethane	1	0.0059	U	
75-15-0	Carbon disulfide	1	0.0059	U	
56-23-5	Carbon tetrachloride	1	0.0059	U	
108-90-7	Chlorobenzene	1	0.0059	U	
75-00-3	Chloroethane	1	0.0059	U	
67-66-3	Chloroform	1	0.0059	U	
74-87-3	Chloromethane	1	0.0059	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0059	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0059	U	
110-82-7	Cyclohexane	1	0.22		J
124-48-1	Dibromochloromethane	1	0.0059	U	UJ
74-95-3	Dibromomethane	1	0.0059	U	UJ

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-02 | File ID: V3178170.D

Sampled: 11/07/23 13:30 | Prepared: 11/14/23 09:00 | Analyzed: 11/14/23 13:57

Solids: 66.43 | Preparation: EPA 5035A | Initial/Final: 6.39 g / 5 ml

Batch: BK30860 | Sequence: S3K1515 | Calibration: SJ30040 | Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
75-71-8	Dichlorodifluoromethane	1	0.0059	U	UJ
87-68-3	Hexachlorobutadiene	1	0.0059	U	UJ
98-82-8	Isopropylbenzene	1	0.11		J
79-20-9	Methyl acetate	1	0.0059	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0059	U	UJ
75-09-2	Methylene chloride	1	0.012	U	UJ
104-51-8	n-Butylbenzene	1	0.080		J
103-65-1	n-Propylbenzene	1	0.37		
95-47-6	o-Xylene	1	0.048		
179601-23-1	p- & m- Xylenes	1	0.37		
99-87-6	p-Isopropyltoluene	1	0.028		
135-98-8	sec-Butylbenzene	1	0.043		
100-42-5	Styrene	1	0.0059	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	1	0.0059	U	
98-06-6	tert-Butylbenzene	1	0.0059	U	
127-18-4	Tetrachloroethylene	1	0.0059	U	
108-88-3	Toluene	1	0.048		J
156-60-5	trans-1,2-Dichloroethylene	1	0.0059	U	UJ
10061-02-6	trans-1,3-Dichloropropylene	1	0.0059	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0059	U	
79-01-6	Trichloroethylene	1	0.0059	U	
75-69-4	Trichlorofluoromethane	1	0.0059	U	
75-01-4	Vinyl Chloride	1	0.0059	U	
1330-20-7	Xylenes, Total	1	0.42		J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	37.8	75.7	77 - 125	*
SURR: Toluene-d8	50.0	47.5	95.0	85 - 120	
SURR: p-Bromofluorobenzene	50.0	43.1	86.3	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	18157	5.849	119194	5.842	*
ISTD: Chlorobenzene-d5	35576	8.875	532696	8.874	*
ISTD: 1,2-Dichlorobenzene-d4	17551	11.859	239423	11.862	*

* Values outside of QC limits

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-02RE1 | File ID: V3178195.D

Sampled: 11/07/23 13:30 | Prepared: 11/14/23 09:00 | Analyzed: 11/15/23 14:06

Solids: 66.43 | Preparation: EPA 5035A | Initial/Final: 5.91 g / 5 ml

Batch: BK30917 | Sequence: S3K1611 | Calibration: SJ30040 | Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
108-67-8	1,3,5-Trimethylbenzene	100	45	D	J
100-41-4	Ethyl Benzene	100	34	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	26.8	53.5	77 - 125	D
SURR: Toluene-d8	50.0	48.5	96.9	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	58.0	116	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	257446	5.845	125307	5.845	*
ISTD: Chlorobenzene-d5	484632	8.874	557292	8.871	
ISTD: 1,2-Dichlorobenzene-d4	186828	11.862	249463	11.862	

* Values outside of QC limits

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-02RE2 | File ID: V3178207.D

Sampled: 11/07/23 13:30 | Prepared: 11/14/23 09:00 | Analyzed: 11/15/23 19:20

Solids: 66.43 | Preparation: EPA 5035A | Initial/Final: 6.39 g / 5 ml

Batch: BK30860 | Sequence: S3K1611 | Calibration: SJ30040 | Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
95-63-6	1,2,4-Trimethylbenzene	200	88	D	J
108-87-2	Methylcyclohexane	200	63	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	34.2	68.4	77 - 125	D
SURR: Toluene-d8	50.0	48.6	97.2	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	48.7	97.4	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	192673	5.845	125307	5.845	
ISTD: Chlorobenzene-d5	546919	8.871	557292	8.871	
ISTD: 1,2-Dichlorobenzene-d4	227221	11.862	249463	11.862	

* Values outside of QC limits

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID: V3178194.D

Sampled: 11/07/23 14:00 Prepared: 11/14/23 09:00 Analyzed: 11/15/23 13:40

Solids: 60.81 Preparation: EPA 5035A Initial/Final: 4.09 g / 5 ml

Batch: BK30917 Sequence: S3K1611 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	1.0	U	
71-55-6	1,1,1-Trichloroethane	100	1.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	1.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	1.0	U	
79-00-5	1,1,2-Trichloroethane	100	1.0	U	
75-34-3	1,1-Dichloroethane	100	1.0	U	
75-35-4	1,1-Dichloroethylene	100	1.0	U	
87-61-6	1,2,3-Trichlorobenzene	100	1.0	U	
96-18-4	1,2,3-Trichloropropane	100	1.0	U	
120-82-1	1,2,4-Trichlorobenzene	100	1.0	U	
95-63-6	1,2,4-Trimethylbenzene	100	3.0	D	
96-12-8	1,2-Dibromo-3-chloropropane	100	1.0	U	UJ
106-93-4	1,2-Dibromoethane	100	1.0	U	
95-50-1	1,2-Dichlorobenzene	100	1.0	U	
107-06-2	1,2-Dichloroethane	100	1.0	U	
78-87-5	1,2-Dichloropropane	100	1.0	U	
108-67-8	1,3,5-Trimethylbenzene	100	1.1	D	
541-73-1	1,3-Dichlorobenzene	100	1.0	U	
106-46-7	1,4-Dichlorobenzene	100	1.0	U	
123-91-1	1,4-Dioxane	100	~~20~~	U	R
78-93-3	2-Butanone	100	1.0	U	UJ
591-78-6	2-Hexanone	100	1.0	U	UJ
108-10-1	4-Methyl-2-pentanone	100	1.0	U	UJ
67-64-1	Acetone	100	2.0	U	UJ
107-02-8	Acrolein	100	2.0	U	
107-13-1	Acrylonitrile	100	1.0	U	
71-43-2	Benzene	100	2.0	D	
74-97-5	Bromochloromethane	100	1.0	U	
75-27-4	Bromodichloromethane	100	1.0	U	UJ
75-25-2	Bromoform	100	1.0	U	
74-83-9	Bromomethane	100	1.0	U	
75-15-0	Carbon disulfide	100	1.0	U	
56-23-5	Carbon tetrachloride	100	1.0	U	
108-90-7	Chlorobenzene	100	1.0	U	
75-00-3	Chloroethane	100	1.0	U	
67-66-3	Chloroform	100	1.0	U	
74-87-3	Chloromethane	100	1.0	U	UJ
156-59-2	cis-1,2-Dichloroethylene	100	1.0	U	
10061-01-5	cis-1,3-Dichloropropylene	100	1.0	U	
110-82-7	Cyclohexane	100	16	D	

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID: V3178194.D

Sampled: 11/07/23 14:00 Prepared: 11/14/23 09:00 Analyzed: 11/15/23 13:40

Solids: 60.81 Preparation: EPA 5035A Initial/Final: 4.09 g / 5 ml

Batch: BK30917 Sequence: S3K1611 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	1.0	U	
74-95-3	Dibromomethane	100	1.0	U	
75-71-8	Dichlorodifluoromethane	100	1.0	U	UJ
100-41-4	Ethyl Benzene	100	4.9	D	
87-68-3	Hexachlorobutadiene	100	1.0	U	
98-82-8	Isopropylbenzene	100	2.6	D	
79-20-9	Methyl acetate	100	1.0	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	1.0	U	
108-87-2	Methylcyclohexane	100	36	D	
75-09-2	Methylene chloride	100	2.0	U	
104-51-8	n-Butylbenzene	100	6.1	D	
103-65-1	n-Propylbenzene	100	10	D	
95-47-6	o-Xylene	100	0.53	JD	
179601-23-1	p- & m- Xylenes	100	3.7	D	
99-87-6	p-Isopropyltoluene	100	0.96	JD	
135-98-8	sec-Butylbenzene	100	2.1	D	
100-42-5	Styrene	100	1.0	U	
75-65-0	tert-Butyl alcohol (TBA)	100	1.0	U	UJ
98-06-6	tert-Butylbenzene	100	1.0	U	
127-18-4	Tetrachloroethylene	100	1.0	U	
108-88-3	Toluene	100	1.1	D	
156-60-5	trans-1,2-Dichloroethylene	100	1.0	U	
10061-02-6	trans-1,3-Dichloropropylene	100	1.0	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	100	1.0	U	UJ
79-01-6	Trichloroethylene	100	1.0	U	
75-69-4	Trichlorofluoromethane	100	1.0	U	
75-01-4	Vinyl Chloride	100	1.0	U	UJ
1330-20-7	Xylenes, Total	100	4.3	D	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	40.1	80.2	77 - 125	D
SURR: Toluene-d8	50.0	49.9	99.9	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	45.1	90.2	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	149548	5.845	125307	5.845	
ISTD: Chlorobenzene-d5	493721	8.871	557292	8.871	
ISTD: 1,2-Dichlorobenzene-d4	219671	11.862	249463	11.862	

* Values outside of QC limits

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: V3178172.D

Sampled: 11/07/23 14:30 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 14:50

Solids: 82.99 Preparation: EPA 5035A Initial/Final: 6.03 g / 5 ml

Batch: BK30860 Sequence: S3K1515 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0050	U	
71-55-6	1,1,1-Trichloroethane	1	0.0050	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0050	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0050	U	
79-00-5	1,1,2-Trichloroethane	1	0.0050	U	
75-34-3	1,1-Dichloroethane	1	0.0050	U	
75-35-4	1,1-Dichloroethylene	1	0.0050	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0050	U	
96-18-4	1,2,3-Trichloropropane	1	0.0050	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0050	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0070		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0050	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0050	U	
95-50-1	1,2-Dichlorobenzene	1	0.0050	U	
107-06-2	1,2-Dichloroethane	1	0.0050	U	
78-87-5	1,2-Dichloropropane	1	0.0050	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0050	U	
541-73-1	1,3-Dichlorobenzene	1	0.0050	U	
106-46-7	1,4-Dichlorobenzene	1	0.0050	U	
123-91-1	1,4-Dioxane	1	~~0.10~~	U	R
78-93-3	2-Butanone	1	0.0050	U	UJ
591-78-6	2-Hexanone	1	0.0050	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0050	U	UJ
67-64-1	Acetone	1	0.0074	J	J
107-02-8	Acrolein	1	0.010	U	
107-13-1	Acrylonitrile	1	0.0050	U	
71-43-2	Benzene	1	0.0050	U	
74-97-5	Bromochloromethane	1	0.0050	U	
75-27-4	Bromodichloromethane	1	0.0050	U	UJ
75-25-2	Bromoform	1	0.0050	U	UJ
74-83-9	Bromomethane	1	0.0050	U	
75-15-0	Carbon disulfide	1	0.0050	U	
56-23-5	Carbon tetrachloride	1	0.0050	U	
108-90-7	Chlorobenzene	1	0.0050	U	
75-00-3	Chloroethane	1	0.0050	U	
67-66-3	Chloroform	1	0.0050	U	
74-87-3	Chloromethane	1	0.0050	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0050	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0050	U	
110-82-7	Cyclohexane	1	0.0049	J	

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: V3178172.D

Sampled: 11/07/23 14:30 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 14:50

Solids: 82.99 Preparation: EPA 5035A Initial/Final: 6.03 g / 5 ml

Batch: BK30860 Sequence: S3K1515 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0050	U	UJ
74-95-3	Dibromomethane	1	0.0050	U	
75-71-8	Dichlorodifluoromethane	1	0.0050	U	UJ
100-41-4	Ethyl Benzene	1	0.011		
87-68-3	Hexachlorobutadiene	1	0.0050	U	
98-82-8	Isopropylbenzene	1	0.0050	U	
79-20-9	Methyl acetate	1	0.0050	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0050	U	
108-87-2	Methylcyclohexane	1	0.0054		
75-09-2	Methylene chloride	1	0.010	U	
104-51-8	n-Butylbenzene	1	0.0050	U	
103-65-1	n-Propylbenzene	1	0.0028	J	
95-47-6	o-Xylene	1	0.0050	U	
179601-23-1	p- & m- Xylenes	1	0.010	U	
99-87-6	p-Isopropyltoluene	1	0.0050	U	
135-98-8	sec-Butylbenzene	1	0.0050	U	
100-42-5	Styrene	1	0.0050	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0050	U	UJ
98-06-6	tert-Butylbenzene	1	0.0050	U	
127-18-4	Tetrachloroethylene	1	0.0050	U	
108-88-3	Toluene	1	0.0050	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0050	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0050	U	UJ
110-57-6	trans-1,4-dichloro-2-butene	1	0.0050	U	UJ
79-01-6	Trichloroethylene	1	0.0050	U	
75-69-4	Trichlorofluoromethane	1	0.0050	U	
75-01-4	Vinyl Chloride	1	0.0050	U	UJ
1330-20-7	Xylenes, Total	1	0.015	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.5	99.0	77 - 125	
SURR: Toluene-d8	50.0	49.9	99.8	85 - 120	
SURR: p-Bromofluorobenzene	50.0	40.7	81.4	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	128004	5.842	119194	5.842	
ISTD: Chlorobenzene-d5	577929	8.871	532696	8.874	
ISTD: 1,2-Dichlorobenzene-d4	260962	11.862	239423	11.862	

* Values outside of QC limits

MKP 2/2/2024

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
CLASS: SVOA
METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID: E70351608.D

Sampled: 11/07/23 13:15 Prepared: 11/16/23 08:12 Analyzed: 11/17/23 00:24

Solids: 89.76 Preparation: EPA 3550C Initial/Final: 30.4 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0917	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.183	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0917	U	
95-50-1	1,2-Dichlorobenzene	2	0.0917	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0917	U	
541-73-1	1,3-Dichlorobenzene	2	0.0917	U	
106-46-7	1,4-Dichlorobenzene	2	0.0917	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.183	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0917	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0917	U	
120-83-2	2,4-Dichlorophenol	2	0.0917	U	
105-67-9	2,4-Dimethylphenol	2	0.0917	U	
51-28-5	2,4-Dinitrophenol	2	~~0.183~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0917	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0917	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0917	U	
95-57-8	2-Chlorophenol	2	0.0917	U	
91-57-6	2-Methylnaphthalene	2	0.0917	U	
95-48-7	2-Methylphenol	2	0.0917	U	
88-74-4	2-Nitroaniline	2	0.183	U	
88-75-5	2-Nitrophenol	2	0.0917	U	
65794-96-9	3- & 4-Methylphenols	2	0.0917	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0917	U	
99-09-2	3-Nitroaniline	2	0.183	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.183~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0917	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0917	U	
106-47-8	4-Chloroaniline	2	0.0917	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0917	U	
100-01-6	4-Nitroaniline	2	0.183	U	
100-02-7	4-Nitrophenol	2	0.183	U	
83-32-9	Acenaphthene	2	0.117	D	
208-96-8	Acenaphthylene	2	0.0931	D	
98-86-2	Acetophenone	2	0.0917	U	
62-53-3	Aniline	2	0.367	U	
120-12-7	Anthracene	2	0.372	D	
1912-24-9	Atrazine	2	0.0917	U	
100-52-7	Benzaldehyde	2	0.0917	U	
92-87-5	Benzidine	2	0.367	U	
56-55-3	Benzo(a)anthracene	2	1.09	D	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-01 | File ID: E70351608.D

Sampled: 11/07/23 13:15 | Prepared: 11/16/23 08:12 | Analyzed: 11/17/23 00:24

Solids: 89.76 | Preparation: EPA 3550C | Initial/Final: 30.4 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.973	D	
205-99-2	Benzo(b)fluoranthene	2	0.798	D	
191-24-2	Benzo(g,h,i)perylene	2	0.555	D	
207-08-9	Benzo(k)fluoranthene	2	0.757	D	
65-85-0	Benzoic acid	2	0.0917	U	UJ
100-51-6	Benzyl alcohol	2	0.0917	U	
85-68-7	Benzyl butyl phthalate	2	0.0917	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0917	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0917	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0917	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0917	U	
105-60-2	Caprolactam	2	0.183	U	
86-74-8	Carbazole	2	0.0938	D	
218-01-9	Chrysene	2	1.00	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.144	D	
132-64-9	Dibenzofuran	2	0.0711	JD	
84-66-2	Diethyl phthalate	2	0.0917	U	
131-11-3	Dimethyl phthalate	2	0.0917	U	
84-74-2	Di-n-butyl phthalate	2	0.0917	U	
117-84-0	Di-n-octyl phthalate	2	0.0917	U	UJ
122-39-4	Diphenylamine	2	0.183	U	
206-44-0	Fluoranthene	2	2.06	D	
86-73-7	Fluorene	2	0.101	D	
118-74-1	Hexachlorobenzene	2	0.0917	U	
87-68-3	Hexachlorobutadiene	2	0.0917	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0917	U	UJ
67-72-1	Hexachloroethane	2	0.0917	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.684	D	
78-59-1	Isophorone	2	0.0917	U	
91-20-3	Naphthalene	2	0.0917	U	
98-95-3	Nitrobenzene	2	0.0917	U	
62-75-9	N-Nitrosodimethylamine	2	0.0917	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0917	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0917	U	
87-86-5	Pentachlorophenol	2	0.0917	U	
85-01-8	Phenanthrene	2	1.63	D	
108-95-2	Phenol	2	0.0917	U	
129-00-0	Pyrene	2	2.14	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (0-2.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-01	File ID:	E70351608.D
Sampled:	11/07/23 13:15	Prepared:	11/16/23 08:12	Analyzed:	11/17/23 00:24
Solids:	89.76	Preparation:	EPA 3550C	Initial/Final:	30.4 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.83	0.937	51.2	20 - 108	
SURR: Phenol-d6	1.83	0.951	51.9	23 - 114	
SURR: Nitrobenzene-d5	0.916	0.493	53.8	22 - 108	
SURR: 2-Fluorobiphenyl	0.916	0.540	59.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.83	1.25	68.0	19 - 110	
SURR: Terphenyl-d14	0.916	0.588	64.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	615001	4.759	543964	4.765	
ISTD: Naphthalene-d8	2530843	5.795	2519517	5.801	
ISTD: Acenaphthene-d10	1415307	7.441	1353643	7.453	
ISTD: Phenanthrene-d10	2400400	9.46	2306245	9.472	
ISTD: Chrysene-d12	1679635	14.051	1732529	14.062	
ISTD: Perylene-d12	1809264	17.047	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID: E70351609.D

Sampled: 11/07/23 13:30 Prepared: 11/16/23 08:12 Analyzed: 11/17/23 00:54

Solids: 66.43 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.122	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.244	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.122	U	
95-50-1	1,2-Dichlorobenzene	2	0.122	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.122	U	
541-73-1	1,3-Dichlorobenzene	2	0.122	U	
106-46-7	1,4-Dichlorobenzene	2	0.122	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.244	U	
95-95-4	2,4,5-Trichlorophenol	2	0.122	U	
88-06-2	2,4,6-Trichlorophenol	2	0.122	U	
120-83-2	2,4-Dichlorophenol	2	0.122	U	
105-67-9	2,4-Dimethylphenol	2	0.122	U	
51-28-5	2,4-Dinitrophenol	2	~~0.244~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.122	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.122	U	UJ
91-58-7	2-Chloronaphthalene	2	0.122	U	
95-57-8	2-Chlorophenol	2	0.122	U	
91-57-6	2-Methylnaphthalene	2	0.775	D	
95-48-7	2-Methylphenol	2	0.122	U	
88-74-4	2-Nitroaniline	2	0.244	U	
88-75-5	2-Nitrophenol	2	0.122	U	
65794-96-9	3- & 4-Methylphenols	2	0.122	U	
91-94-1	3,3-Dichlorobenzidine	2	0.122	U	
99-09-2	3-Nitroaniline	2	0.244	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.244~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.122	U	
59-50-7	4-Chloro-3-methylphenol	2	0.122	U	
106-47-8	4-Chloroaniline	2	0.122	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.122	U	
100-01-6	4-Nitroaniline	2	0.244	U	
100-02-7	4-Nitrophenol	2	0.244	U	
83-32-9	Acenaphthene	2	0.122	U	
208-96-8	Acenaphthylene	2	0.122	U	
98-86-2	Acetophenone	2	0.122	U	
62-53-3	Aniline	2	0.490	U	
120-12-7	Anthracene	2	0.122	U	
1912-24-9	Atrazine	2	0.122	U	
100-52-7	Benzaldehyde	2	0.122	U	
92-87-5	Benzidine	2	0.490	U	
56-55-3	Benzo(a)anthracene	2	0.0723	JD	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID: E70351609.D

Sampled: 11/07/23 13:30 Prepared: 11/16/23 08:12 Analyzed: 11/17/23 00:54

Solids: 66.43 Preparation: EPA 3550C Initial/Final: 30.8 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.0665	JD	
205-99-2	Benzo(b)fluoranthene	2	0.122	U	
191-24-2	Benzo(g,h,i)perylene	2	0.122	U	
207-08-9	Benzo(k)fluoranthene	2	0.122	U	
65-85-0	Benzoic acid	2	0.122	U	UJ
100-51-6	Benzyl alcohol	2	0.122	U	
85-68-7	Benzyl butyl phthalate	2	0.122	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.122	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.122	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.122	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.122	U	
105-60-2	Caprolactam	2	0.244	U	
86-74-8	Carbazole	2	0.122	U	
218-01-9	Chrysene	2	0.0762	JD	
53-70-3	Dibenzo(a,h)anthracene	2	0.122	U	
132-64-9	Dibenzofuran	2	0.122	U	
84-66-2	Diethyl phthalate	2	0.122	U	
131-11-3	Dimethyl phthalate	2	0.122	U	
84-74-2	Di-n-butyl phthalate	2	0.122	U	
117-84-0	Di-n-octyl phthalate	2	0.122	U	UJ
122-39-4	Diphenylamine	2	0.244	U	
206-44-0	Fluoranthene	2	0.125	D	
86-73-7	Fluorene	2	0.122	U	
118-74-1	Hexachlorobenzene	2	0.122	U	
87-68-3	Hexachlorobutadiene	2	0.122	U	
77-47-4	Hexachlorocyclopentadiene	2	0.122	U	UJ
67-72-1	Hexachloroethane	2	0.122	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.122	U	
78-59-1	Isophorone	2	0.122	U	
91-20-3	Naphthalene	2	1.08	D	
98-95-3	Nitrobenzene	2	0.122	U	
62-75-9	N-Nitrosodimethylamine	2	0.122	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.122	U	
86-30-6	N-Nitrosodiphenylamine	2	0.122	U	
87-86-5	Pentachlorophenol	2	0.122	U	
85-01-8	Phenanthrene	2	0.139	D	
108-95-2	Phenol	2	0.122	U	
129-00-0	Pyrene	2	0.180	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (15-17.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-02	File ID:	E70351609.D
Sampled:	11/07/23 13:30	Prepared:	11/16/23 08:12	Analyzed:	11/17/23 00:54
Solids:	66.43	Preparation:	EPA 3550C	Initial/Final:	30.8 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.44	1.45	59.2	20 - 108	
SURR: Phenol-d6	2.44	1.36	55.6	23 - 114	
SURR: Nitrobenzene-d5	1.22	0.794	65.0	22 - 108	
SURR: 2-Fluorobiphenyl	1.22	0.754	61.7	21 - 113	
SURR: 2,4,6-Tribromophenol	2.44	1.77	72.4	19 - 110	
SURR: Terphenyl-d14	1.22	0.840	68.7	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	570158	4.759	543964	4.765	
ISTD: Naphthalene-d8	2278221	5.789	2519517	5.801	
ISTD: Acenaphthene-d10	1267866	7.441	1353643	7.453	
ISTD: Phenanthrene-d10	2314737	9.454	2306245	9.472	
ISTD: Chrysene-d12	1667877	14.051	1732529	14.062	
ISTD: Perylene-d12	1710323	17.047	1702355	17.047	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID: E70351610.D

Sampled: 11/07/23 14:00 Prepared: 11/16/23 08:12 Analyzed: 11/17/23 01:24

Solids: 60.81 Preparation: EPA 3550C Initial/Final: 30.1 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.137	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.273	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.137	U	
95-50-1	1,2-Dichlorobenzene	2	0.137	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.137	U	
541-73-1	1,3-Dichlorobenzene	2	0.137	U	
106-46-7	1,4-Dichlorobenzene	2	0.137	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.273	U	
95-95-4	2,4,5-Trichlorophenol	2	0.137	U	
88-06-2	2,4,6-Trichlorophenol	2	0.137	U	
120-83-2	2,4-Dichlorophenol	2	0.137	U	
105-67-9	2,4-Dimethylphenol	2	0.137	U	
51-28-5	2,4-Dinitrophenol	2	~~0.273~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.137	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.137	U	UJ
91-58-7	2-Chloronaphthalene	2	0.137	U	
95-57-8	2-Chlorophenol	2	0.137	U	
91-57-6	2-Methylnaphthalene	2	0.153	D	
95-48-7	2-Methylphenol	2	0.137	U	
88-74-4	2-Nitroaniline	2	0.273	U	
88-75-5	2-Nitrophenol	2	0.137	U	
65794-96-9	3- & 4-Methylphenols	2	0.137	U	
91-94-1	3,3-Dichlorobenzidine	2	0.137	U	
99-09-2	3-Nitroaniline	2	0.273	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.273~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.137	U	
59-50-7	4-Chloro-3-methylphenol	2	0.137	U	
106-47-8	4-Chloroaniline	2	0.137	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.137	U	
100-01-6	4-Nitroaniline	2	0.273	U	
100-02-7	4-Nitrophenol	2	0.273	U	
83-32-9	Acenaphthene	2	0.137	U	
208-96-8	Acenaphthylene	2	0.137	U	
98-86-2	Acetophenone	2	0.137	U	
62-53-3	Aniline	2	0.547	U	
120-12-7	Anthracene	2	0.137	U	
1912-24-9	Atrazine	2	0.137	U	
100-52-7	Benzaldehyde	2	0.137	U	
92-87-5	Benzidine	2	0.547	U	
56-55-3	Benzo(a)anthracene	2	0.129	JD	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-03 | File ID: E70351610.D

Sampled: 11/07/23 14:00 | Prepared: 11/16/23 08:12 | Analyzed: 11/17/23 01:24

Solids: 60.81 | Preparation: EPA 3550C | Initial/Final: 30.1 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.125	JD	
205-99-2	Benzo(b)fluoranthene	2	0.0951	JD	
191-24-2	Benzo(g,h,i)perylene	2	0.0809	JD	
207-08-9	Benzo(k)fluoranthene	2	0.0885	JD	
65-85-0	Benzoic acid	2	0.137	U	UJ
100-51-6	Benzyl alcohol	2	0.137	U	
85-68-7	Benzyl butyl phthalate	2	0.137	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.137	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.137	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.137	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.137	U	
105-60-2	Caprolactam	2	0.273	U	
86-74-8	Carbazole	2	0.137	U	
218-01-9	Chrysene	2	0.116	JD	
53-70-3	Dibenzo(a,h)anthracene	2	0.137	U	
132-64-9	Dibenzofuran	2	0.137	U	
84-66-2	Diethyl phthalate	2	0.137	U	
131-11-3	Dimethyl phthalate	2	0.137	U	
84-74-2	Di-n-butyl phthalate	2	0.137	U	
117-84-0	Di-n-octyl phthalate	2	0.137	U	UJ
122-39-4	Diphenylamine	2	0.273	U	
206-44-0	Fluoranthene	2	0.259	D	
86-73-7	Fluorene	2	0.137	U	
118-74-1	Hexachlorobenzene	2	0.137	U	
87-68-3	Hexachlorobutadiene	2	0.137	U	
77-47-4	Hexachlorocyclopentadiene	2	0.137	U	UJ
67-72-1	Hexachloroethane	2	0.137	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.101	JD	
78-59-1	Isophorone	2	0.137	U	
91-20-3	Naphthalene	2	0.320	D	
98-95-3	Nitrobenzene	2	0.137	U	
62-75-9	N-Nitrosodimethylamine	2	0.137	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.137	U	
86-30-6	N-Nitrosodiphenylamine	2	0.137	U	
87-86-5	Pentachlorophenol	2	0.137	U	
85-01-8	Phenanthrene	2	0.204	D	
108-95-2	Phenol	2	0.137	U	
129-00-0	Pyrene	2	0.255	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-03 | File ID: E70351610.D

Sampled: 11/07/23 14:00 | Prepared: 11/16/23 08:12 | Analyzed: 11/17/23 01:24

Solids: 60.81 | Preparation: EPA 3550C | Initial/Final: 30.1 g / 1 mL

Batch: BK31053 | Sequence: S3K1734 | Calibration: SK30004 | Instrument: BNA #7

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.73	1.92	70.3	20 - 108	
SURR: Phenol-d6	2.73	1.86	68.2	23 - 114	
SURR: Nitrobenzene-d5	1.37	1.04	76.3	22 - 108	
SURR: 2-Fluorobiphenyl	1.37	1.05	76.6	21 - 113	
SURR: 2,4,6-Tribromophenol	2.73	2.50	91.6	19 - 110	
SURR: Terphenyl-d14	1.37	1.28	93.5	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	553604	4.754	543964	4.765	
ISTD: Naphthalene-d8	2248921	5.789	2519517	5.801	
ISTD: Acenaphthene-d10	1280872	7.442	1353643	7.453	
ISTD: Phenanthrene-d10	2409942	9.46	2306245	9.472	
ISTD: Chrysene-d12	1598274	14.051	1732529	14.062	
ISTD: Perylene-d12	1660112	17.041	1702355	17.047	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: E70351611.D

Sampled: 11/07/23 14:30 Prepared: 11/16/23 08:12 Analyzed: 11/17/23 01:54

Solids: 82.99 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0988	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.197	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0988	U	
95-50-1	1,2-Dichlorobenzene	2	0.0988	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0988	U	
541-73-1	1,3-Dichlorobenzene	2	0.0988	U	
106-46-7	1,4-Dichlorobenzene	2	0.0988	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.197	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0988	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0988	U	
120-83-2	2,4-Dichlorophenol	2	0.0988	U	
105-67-9	2,4-Dimethylphenol	2	0.0988	U	
51-28-5	2,4-Dinitrophenol	2	~~0.197~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0988	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0988	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0988	U	
95-57-8	2-Chlorophenol	2	0.0988	U	
91-57-6	2-Methylnaphthalene	2	0.0988	U	
95-48-7	2-Methylphenol	2	0.0988	U	
88-74-4	2-Nitroaniline	2	0.197	U	
88-75-5	2-Nitrophenol	2	0.0988	U	
65794-96-9	3- & 4-Methylphenols	2	0.0988	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0988	U	
99-09-2	3-Nitroaniline	2	0.197	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.197~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0988	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0988	U	
106-47-8	4-Chloroaniline	2	0.0988	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0988	U	
100-01-6	4-Nitroaniline	2	0.197	U	
100-02-7	4-Nitrophenol	2	0.197	U	
83-32-9	Acenaphthene	2	0.0988	U	
208-96-8	Acenaphthylene	2	0.0988	U	
98-86-2	Acetophenone	2	0.0988	U	
62-53-3	Aniline	2	0.396	U	
120-12-7	Anthracene	2	0.0988	U	
1912-24-9	Atrazine	2	0.0988	U	
100-52-7	Benzaldehyde	2	0.0988	U	
92-87-5	Benzidine	2	0.396	U	
56-55-3	Benzo(a)anthracene	2	0.0988	U	

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: E70351611.D

Sampled: 11/07/23 14:30 Prepared: 11/16/23 08:12 Analyzed: 11/17/23 01:54

Solids: 82.99 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31053 Sequence: S3K1734 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.0988	U	
205-99-2	Benzo(b)fluoranthene	2	0.0988	U	
191-24-2	Benzo(g,h,i)perylene	2	0.0988	U	
207-08-9	Benzo(k)fluoranthene	2	0.0988	U	
65-85-0	Benzoic acid	2	0.0988	U	UJ
100-51-6	Benzyl alcohol	2	0.0988	U	
85-68-7	Benzyl butyl phthalate	2	0.0988	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0988	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0988	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0988	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0988	U	
105-60-2	Caprolactam	2	0.197	U	
86-74-8	Carbazole	2	0.0988	U	
218-01-9	Chrysene	2	0.0988	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.0988	U	
132-64-9	Dibenzofuran	2	0.0988	U	
84-66-2	Diethyl phthalate	2	0.0988	U	
131-11-3	Dimethyl phthalate	2	0.0988	U	
84-74-2	Di-n-butyl phthalate	2	0.0988	U	
117-84-0	Di-n-octyl phthalate	2	0.0988	U	UJ
122-39-4	Diphenylamine	2	0.197	U	
206-44-0	Fluoranthene	2	0.0988	U	
86-73-7	Fluorene	2	0.0988	U	
118-74-1	Hexachlorobenzene	2	0.0988	U	
87-68-3	Hexachlorobutadiene	2	0.0988	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0988	U	UJ
67-72-1	Hexachloroethane	2	0.0988	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0988	U	
78-59-1	Isophorone	2	0.0988	U	
91-20-3	Naphthalene	2	0.0988	U	
98-95-3	Nitrobenzene	2	0.0988	U	
62-75-9	N-Nitrosodimethylamine	2	0.0988	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0988	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0988	U	
87-86-5	Pentachlorophenol	2	0.0988	U	
85-01-8	Phenanthrene	2	0.0988	U	
108-95-2	Phenol	2	0.0988	U	
129-00-0	Pyrene	2	0.0988	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP2 (27.5-30)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-04	File ID:	E70351611.D
Sampled:	11/07/23 14:30	Prepared:	11/16/23 08:12	Analyzed:	11/17/23 01:54
Solids:	82.99	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31053	Sequence:	S3K1734	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.98	1.45	73.5	20 - 108	
SURR: Phenol-d6	1.98	1.43	72.2	23 - 114	
SURR: Nitrobenzene-d5	0.988	0.731	74.0	22 - 108	
SURR: 2-Fluorobiphenyl	0.988	0.819	83.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.98	1.85	93.8	19 - 110	
SURR: Terphenyl-d14	0.988	0.851	86.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	595882	4.76	543964	4.765	
ISTD: Naphthalene-d8	2438435	5.789	2519517	5.801	
ISTD: Acenaphthene-d10	1386472	7.442	1353643	7.453	
ISTD: Phenanthrene-d10	2408682	9.455	2306245	9.472	
ISTD: Chrysene-d12	1871707	14.045	1732529	14.062	
ISTD: Perylene-d12	1865007	17.035	1702355	17.047	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: SVOA

METHOD: EPA 8270D SIM

No data validation qualifiers were added

MKP 2/2/2024

DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP2 (0-2.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-01	File ID:	E800073553.D
Sampled:	11/07/23 13:15	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 03:42
Solids:	89.76	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.333	67.3	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	151952	9.215	179340	9.215	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP2 (15-17.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-02	File ID:	E800073554.D
Sampled:	11/07/23 13:30	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 03:59
Solids:	66.43	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.359	72.6	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	192964	9.216	179340	9.215	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP2 (18-20)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-03	File ID:	E800073556.D
Sampled:	11/07/23 14:00	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 04:33
Solids:	60.81	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.320	64.6	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	190729	9.209	169212	9.216	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP2 (27.5-30)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-04	File ID:	E800073557.D
Sampled:	11/07/23 14:30	Prepared:	11/15/23 08:21	Analyzed:	11/16/23 04:51
Solids:	82.99	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK30961	Sequence:	S3K1622	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.270	54.5	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	185290	9.209	169212	9.216	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
CLASS: PFAS
METHOD: EPA 1633 Draft 3

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EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID: QQQ32314.d

Sampled: 11/07/23 13:15 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 22:01

Solids: 89.76 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.197	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.222	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.222	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.203	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.222	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.253		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.222	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.222	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.222	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.222	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.222	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.222	U	
2355-31-9	N-MeFOSAA	1	0.222	U	
2991-50-6	N-EtFOSAA	1	0.222	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.445	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.222	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.222	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.215	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.845	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.854	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.889	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.396	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.445	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.445	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.445	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.209	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.834	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.889	U	
763051-92-9	11CL-PF3OUdS	1	0.841	U	
756426-58-1	9CL-PF3ONS	1	0.832	U	UJ
919005-14-4	ADONA	1	0.841	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.216	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.213	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.11	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.56	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.56	U	
24448-09-7	N-MeFOSE	1	2.22	U	
31506-32-8	N-MeFOSA	1	0.222	U	
1691-99-2	N-EtFOSE	1	2.22	U	
4151-50-2	N-EtFOSA	1	0.222	U	UJ

MKP 2/2/2024

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ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID: QQQ32314.d

Sampled: 11/07/23 13:15 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 22:01

Solids: 89.76 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.16	1.22	56.7	25 - 150	
M5PFHxA	2.32	2.29	99.0	25 - 150	
M4PFHpA	2.32	3.45	149	25 - 150	
M3PFHxS	2.20	3.10	141	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.32	2.61	112	25 - 150	
M6PFDA	1.16	1.71	148	25 - 150	
M7PFUdA	1.16	1.48	128	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.16	1.43	124	25 - 150	
M2PFTeDA	1.16	1.21	105	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.28	0.396	4.27	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.22	2.93	132	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.63	0.425	9.18	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.32	1.68	72.4	10 - 150	
d3-N-MeFOSAA	4.63	4.19	90.6	25 - 150	
d5-N-EtFOSAA	4.63	4.46	96.4	25 - 150	
M2-6:2 FTS	4.40	3.99	90.7	25 - 200	
M2-8:2 FTS	4.45	4.86	109	25 - 200	
M9PFNA	1.16	1.49	129	25 - 150	
M2-4:2 FTS	4.35	2.38	54.8	25 - 150	
d-N-MeFOSA	2.32	1.20	51.6	25 - 150	
d-N-EtFOSA	2.32	1.04	44.9	25 - 150	
M3HFPO-DA	9.28	9.37	101	25 - 150	
d9-N-EtFOSE	23.2	14.5	62.5	25 - 150	
d7-N-MeFOSE	23.2	15.2	65.8	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	31550.17	1.14285	43695.77	1.179567	
MPFDA	12708.82	8.62465	16461.22	8.615383	
MPFHxA	42189.58	5.955717	54537.7	5.96495	
MPFHxS	3752.754	6.889317	3538.103	6.8708	
MPFNA	18636.61	8.096684	22527.11	8.0874	
MPFOA	41631.51	7.474216	53063.69	7.464933	
MPFOS	8945.189	8.1231	10884.97	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5323.787	8.087033	6321.729	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	35240.79	7.473834	40310.45	7.464567	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	7690.12	4.329566	153042.6	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	5631.61	1.14055	212423.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	25556.25	9.484867	34990.75	9.46635	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-01 | File ID: QQQ32314.d

Sampled: 11/07/23 13:15 | Prepared: 11/14/23 13:45 | Analyzed: 11/17/23 22:01

Solids: 89.76 | Preparation: EPA 1633 Prep | Initial/Final: 5.01 g / 5 mL

Batch: BK30912 | Sequence: S3K1748 | Calibration: SJ30009 | Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4451.934	8.13185	3972.023	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	9851.38	9.06405	15472.03	9.0546	
M7PFUdA-EIS	27735.29	9.08765	40576.09	9.069117	
M6PFDA-EIS	20109	8.624267	23636.04	8.615	
M5PFHxA-EIS	52508.1	5.954533	87203.55	5.963767	
M4PFHpA-EIS	10901.64	6.779183	12563.34	6.76995	
M3PFHxS-EIS	11436.58	6.889783	12133.37	6.871267	
M3PFBS-EIS	8412.629	5.13185	19113.85	5.1503	
M3-HFPO-DA-EIS	33939.17	6.2536	60573.57	6.2536	
M2PFTeDA-EIS	12829.97	10.14727	19432.97	10.11962	
M2-8-2FTS-EIS	33953.76	8.5864	24899.65	8.577133	
M2-6-2FTS-EIS	19386.7	7.41745	15309.1	7.408183	
M2-4-2FTS-EIS	17292.71	5.88805	24197.74	5.88805	
d9-NEtFOSE-EIS	2849.059	10.13147	7106.948	10.0946	
d7-NMeFOSE-EIS	5724.287	9.873816	14891	9.846117	
d5-NEtFOSA-EIS	622.6235	10.16222	244.5576	9.950684	
d5-N-EtFOSAA-EIS	22669.66	9.05885	26645.56	9.049334	
d3-NMeFOSA-EIS	1187.209	9.895933	2626.271	9.877483	
d3-N-MeFOSAA-EIS	27210.76	8.82605	35533.96	8.816767	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID: QQQ32315.d

Sampled: 11/07/23 13:30 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 22:17

Solids: 66.43 Preparation: EPA 1633 Prep Initial/Final: 5.02 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.265	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.300	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.300	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.274	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.300	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.597		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.300	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.300	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.300	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.300	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.300	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.300	U	
2355-31-9	N-MeFOSAA	1	0.300	U	
2991-50-6	N-EtFOSAA	1	0.300	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.600	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.300	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.300	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.289	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.14	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.15	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.20	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.534	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.600	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.600	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.600	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.282	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.12	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.20	U	
763051-92-9	11CL-PF3OUdS	1	1.13	U	
756426-58-1	9CL-PF3ONS	1	1.12	U	UJ
919005-14-4	ADONA	1	1.13	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.291	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.288	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.50	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.50	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.50	U	
24448-09-7	N-MeFOSE	1	3.00	U	
31506-32-8	N-MeFOSA	1	0.300	U	
1691-99-2	N-EtFOSE	1	3.00	U	
4151-50-2	N-EtFOSA	1	0.300	U	UJ

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (15-17.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-02	File ID:	QQQ32315.d
Sampled:	11/07/23 13:30	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 22:17
Solids:	66.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.02 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.91	3.05	105	25 - 150	
M5PFHxA	3.13	3.99	128	25 - 150	
M4PFHpA	3.13	4.20	134	25 - 150	
M3PFHxS	2.96	4.58	155	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.13	3.78	121	25 - 150	
M6PFDA	1.56	2.31	148	25 - 150	
M7PFUdA	1.56	2.16	138	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.56	1.69	108	25 - 150	
M2PFTeDA	1.56	1.76	113	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.5	0.389	3.11	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.99	4.21	141	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.24	2.09	33.4	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.13	2.77	88.7	10 - 150	
d3-N-MeFOSAA	6.24	6.39	102	25 - 150	
d5-N-EtFOSAA	6.24	6.55	105	25 - 150	
M2-6:2 FTS	5.94	7.88	133	25 - 200	
M2-8:2 FTS	6.00	10.2	170	25 - 200	
M9PFNA	1.56	2.19	140	25 - 150	
M2-4:2 FTS	5.86	3.47	59.1	25 - 150	
d-N-MeFOSA	3.13	1.97	62.9	25 - 150	
d-N-EtFOSA	3.13	1.81	57.9	25 - 150	
M3HFPO-DA	12.5	17.4	139	25 - 150	
d9-N-EtFOSE	31.3	20.3	65.1	25 - 150	
d7-N-MeFOSE	31.3	23.1	73.8	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	33930.84	1.1612	43695.77	1.179567	
MPFDA	12357.67	8.633917	16461.22	8.615383	
MPFHxA	45252.64	5.96495	54537.7	5.96495	
MPFHxS	4036.426	6.898567	3538.103	6.8708	
MPFNA	18894.13	8.10595	22527.11	8.0874	
MPFOA	42406.25	7.49275	53063.69	7.464933	
MPFOS	9672.186	8.14165	10884.97	8.113816	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5860.874	8.1056	6321.729	8.077766	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	38620.02	7.492383	40310.45	7.464567	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	30092.19	4.338767	153042.6	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	4559.268	1.1589	212423.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	21782.09	9.503366	34990.75	9.46635	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (15-17.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-02	File ID:	QQQ32315.d
Sampled:	11/07/23 13:30	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 22:17
Solids:	66.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.02 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	5129.353	8.141117	3972.023	8.113283	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	13046.43	9.082583	15472.03	9.0546	
M7PFUdA-EIS	29201.78	9.096867	40576.09	9.069117	
M6PFDA-EIS	19646.86	8.633533	23636.04	8.615	
M5PFHxA-EIS	72582.92	5.963767	87203.55	5.963767	
M4PFHpA-EIS	10551.27	6.7982	12563.34	6.76995	
M3PFHxS-EIS	13509.01	6.899034	12133.37	6.871267	
M3PFBS-EIS	17232.57	5.141067	19113.85	5.1503	
M3-HFPO-DA-EIS	50100.97	6.262866	60573.57	6.2536	
M2PFTeDA-EIS	13421.78	10.15658	19432.97	10.11962	
M2-8-2FTS-EIS	56665.98	8.595667	24899.65	8.577133	
M2-6-2FTS-EIS	30540.47	7.426717	15309.1	7.408183	
M2-4-2FTS-EIS	20057.95	5.88805	24197.74	5.88805	
d9-NEtFOSE-EIS	3197.956	10.1407	7106.948	10.0946	
d7-NMeFOSE-EIS	6944.635	9.892266	14891	9.846117	
d5-NEtFOSA-EIS	946.9522	10.18065	244.5576	9.950684	
d5-N-EtFOSAA-EIS	26666.22	9.068117	26645.56	9.049334	
d3-NMeFOSA-EIS	1560.583	9.923616	2626.271	9.877483	
d3-N-MeFOSAA-EIS	33219.57	8.835333	35533.96	8.816767	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID: QQQ32318.d

Sampled: 11/07/23 14:00 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 23:06

Solids: 60.81 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.290	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.0956	J	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.328	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.300	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.328	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.305	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.328	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.328	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.328	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.328	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.328	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.328	U	
2355-31-9	N-MeFOSAA	1	0.328	U	
2991-50-6	N-EtFOSAA	1	0.328	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.656	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.328	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.328	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.317	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.25	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.26	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.31	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.584	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.656	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.656	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.656	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.309	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.23	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.31	U	
763051-92-9	11CL-PF3OUdS	1	1.24	U	
756426-58-1	9CL-PF3ONS	1	1.23	U	UJ
919005-14-4	ADONA	1	1.24	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.318	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.315	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.64	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	8.21	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	8.21	U	
24448-09-7	N-MeFOSE	1	3.28	U	
31506-32-8	N-MeFOSA	1	0.328	U	
1691-99-2	N-EtFOSE	1	3.28	U	
4151-50-2	N-EtFOSA	1	0.328	U	UJ

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (18-20)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-03	File ID:	QQQ32318.d
Sampled:	11/07/23 14:00	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 23:06
Solids:	60.81	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	3.18	3.21	101	25 - 150	
M5PFHxA	3.42	3.92	114	25 - 150	
M4PFHpA	3.42	4.38	128	25 - 150	
M3PFHxS	3.24	4.43	137	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.42	3.74	109	25 - 150	
M6PFDA	1.71	2.28	133	25 - 150	
M7PFUdA	1.71	1.93	113	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.71	1.63	95.3	25 - 150	
M2PFTeDA	1.71	1.45	85.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	13.7	0.462	3.37	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.27	3.65	111	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.84	3.88	56.8	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.42	2.56	74.9	10 - 150	
d3-N-MeFOSAA	6.84	5.48	80.1	25 - 150	
d5-N-EtFOSAA	6.84	5.79	84.6	25 - 150	
M2-6:2 FTS	6.50	8.44	130	25 - 200	
M2-8:2 FTS	6.56	8.51	130	25 - 200	
M9PFNA	1.71	1.85	108	25 - 150	
M2-4:2 FTS	6.42	3.19	49.7	25 - 150	
d-N-MeFOSA	3.42	1.72	50.3	25 - 150	
d-N-EtFOSA	3.42	1.84	53.6	25 - 150	
M3HFPO-DA	13.7	17.8	130	25 - 150	
d9-N-EtFOSE	34.2	18.5	54.1	25 - 150	
d7-N-MeFOSE	34.2	19.4	56.8	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	34103.64	1.1612	43104.53	1.188733	
MPFDA	12557.99	8.633917	17328.8	8.633917	
MPFHxA	42151.75	5.983433	56603.43	5.9742	
MPFHxS	3970.698	6.898567	4424.146	6.898567	
MPFNA	19088.12	8.10595	27182.11	8.096666	
MPFOA	43068.61	7.49275	54800.8	7.49275	
MPFOS	9693.679	8.14165	11493.83	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4578.241	8.1056	6567.272	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	35424.95	7.492383	45730.06	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	47521.46	4.366333	155089.3	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	4977.607	1.168083	211333.9	1.18645	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	19436.4	9.494117	34131.65	9.475616	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID: QQQ32318.d

Sampled: 11/07/23 14:00 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 23:06

Solids: 60.81 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4089.041	8.141117	4986.526	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11044	9.073317	16042.33	9.06405	
M7PFUdA-EIS	24238.22	9.08765	36591.66	9.078383	
M6PFDA-EIS	17962.37	8.633533	22094.34	8.633533	
M5PFHxA-EIS	60562.3	5.98225	84777.38	5.973	
M4PFHpA-EIS	9367.593	6.7982	13445.26	6.7982	
M3PFHxS-EIS	11739.57	6.899034	13173.26	6.908283	
M3PFBS-EIS	15845.79	5.159517	20212.69	5.1503	
M3-HFPO-DA-EIS	43532.23	6.272117	58189.84	6.272117	
M2PFTeDA-EIS	10286.12	10.14727	16997.61	10.12883	
M2-8-2FTS-EIS	42618.69	8.595667	29825.85	8.595667	
M2-6-2FTS-EIS	29398.57	7.426717	21229.1	7.426717	
M2-4-2FTS-EIS	16479.49	5.90715	26006.52	5.90715	
d9-NEtFOSE-EIS	2675.674	10.12225	5231.229	10.10382	
d7-NMeFOSE-EIS	5354.298	9.873816	10625.36	9.846117	
d5-NEtFOSA-EIS	880.278	10.16222	181.7557	10.03358	
d5-N-EtFOSAA-EIS	21564.79	9.05885	26918.93	9.05885	
d3-NMeFOSA-EIS	1244.806	9.905167	2387.873	9.877483	
d3-N-MeFOSAA-EIS	26081.42	8.835333	37189.15	8.82605	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: QQQ32319.d

Sampled: 11/07/23 14:30 Prepared: 11/14/23 13:45 Analyzed: 11/17/23 23:22

Solids: 82.99 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK30912 Sequence: S3K1748 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.213	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.241	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.241	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.220	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.241	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.224	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.241	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.241	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.241	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.241	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.241	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.241	U	
2355-31-9	N-MeFOSAA	1	0.241	U	
2991-50-6	N-EtFOSAA	1	0.241	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.481	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.241	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.241	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.232	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.914	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.924	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.962	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.428	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.481	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.481	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.481	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.226	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.902	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.962	U	
763051-92-9	11CL-PF3OUdS	1	0.909	U	
756426-58-1	9CL-PF3ONS	1	0.899	U	UJ
919005-14-4	ADONA	1	0.909	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.233	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.231	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.20	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.01	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.01	U	
24448-09-7	N-MeFOSE	1	2.41	U	
31506-32-8	N-MeFOSA	1	0.241	U	
1691-99-2	N-EtFOSE	1	2.41	U	
4151-50-2	N-EtFOSA	1	0.241	U	UJ

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-04 | File ID: QQQ32319.d

Sampled: 11/07/23 14:30 | Prepared: 11/14/23 13:45 | Analyzed: 11/17/23 23:22

Solids: 82.99 | Preparation: EPA 1633 Prep | Initial/Final: 5.01 g / 5 mL

Batch: BK30912 | Sequence: S3K1748 | Calibration: SJ30009 | Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.33	1.74	74.5	25 - 150	
M5PFHxA	2.51	2.58	103	25 - 150	
M4PFHpA	2.51	3.61	144	25 - 150	
M3PFHxS	2.37	3.83	161	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.51	3.03	121	25 - 150	
M6PFDA	1.25	1.67	133	25 - 150	
M7PFUdA	1.25	1.63	131	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.25	1.53	122	25 - 150	
M2PFTeDA	1.25	1.05	83.7	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.0	0.147	1.46	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.40	2.33	97.0	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.01	0.241	4.80	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.51	2.09	83.4	10 - 150	
d3-N-MeFOSAA	5.01	3.84	76.7	25 - 150	
d5-N-EtFOSAA	5.01	3.79	75.6	25 - 150	
M2-6:2 FTS	4.76	3.67	77.1	25 - 200	
M2-8:2 FTS	4.81	3.82	79.4	25 - 200	
M9PFNA	1.25	1.53	123	25 - 150	
M2-4:2 FTS	4.70	2.88	61.2	25 - 150	
d-N-MeFOSA	2.51	1.46	58.2	25 - 150	
d-N-EtFOSA	2.51	1.50	59.8	25 - 150	
M3HFPO-DA	10.0	10.5	105	25 - 150	
d9-N-EtFOSE	25.1	12.5	49.8	25 - 150	
d7-N-MeFOSE	25.1	13.5	53.9	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	31762.88	1.14285	43104.53	1.188733	
MPFDA	12393.32	8.62465	17328.8	8.633917	
MPFHxA	43826.07	5.9742	56603.43	5.9742	
MPFHxS	2994.026	6.889317	4424.146	6.898567	
MPFNA	18219.5	8.096666	27182.11	8.096666	
MPFOA	40028.57	7.483483	54800.8	7.49275	
MPFOS	8787.369	8.132383	11493.83	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4953.276	8.096316	6567.272	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	36421.44	7.4831	45730.06	7.492383	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	4170.96	4.338767	155089.3	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2010.109	1.14055	211333.9	1.18645	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	24568.66	9.494117	34131.65	9.475616	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP2 (27.5-30)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-04	File ID:	QQQ32319.d
Sampled:	11/07/23 14:30	Prepared:	11/14/23 13:45	Analyzed:	11/17/23 23:22
Solids:	82.99	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK30912	Sequence:	S3K1748	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3209.273	8.13185	4986.526	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11153.19	9.073317	16042.33	9.06405	
M7PFUdA-EIS	27651.56	9.08765	36591.66	9.078383	
M6PFDA-EIS	17669.44	8.633533	22094.34	8.633533	
M5PFHxA-EIS	56808.6	5.973	84777.38	5.973	
M4PFHpA-EIS	10940.39	6.788417	13445.26	6.7982	
M3PFHxS-EIS	10447.79	6.889783	13173.26	6.908283	
M3PFBS-EIS	8821.265	5.141067	20212.69	5.1503	
M3-HFPO-DA-EIS	36465.78	6.262866	58189.84	6.272117	
M2PFTeDA-EIS	9983.139	10.14727	16997.61	10.12883	
M2-8-2FTS-EIS	19678.04	8.595667	29825.85	8.595667	
M2-6-2FTS-EIS	13158.79	7.41745	21229.1	7.426717	
M2-4-2FTS-EIS	15408.48	5.8973	26006.52	5.90715	
d9-NEtFOSE-EIS	2230.021	10.13147	5231.229	10.10382	
d7-NMeFOSE-EIS	4593.513	9.873816	10625.36	9.846117	
d5-NEtFOSA-EIS	872.2245	10.17143	181.7557	10.03358	
d5-N-EtFOSAA-EIS	17460.27	9.068117	26918.93	9.05885	
d3-NMeFOSA-EIS	1336.47	9.905167	2387.873	9.877483	
d3-N-MeFOSAA-EIS	22645.38	8.82605	37189.15	8.82605	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: PEST

METHOD: EPA 8081B

DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID: P600426345.D

Sampled: 11/07/23 13:15 Prepared: 11/16/23 08:27 Analyzed: 11/17/23 06:40

Solids: 89.76 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BK31062 Sequence: S3K1651 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.82	U	
72-55-9	4,4'-DDE	5	1.82	U	
50-29-3	4,4'-DDT	5	1.82	U	
309-00-2	Aldrin	5	1.82	U	
319-84-6	alpha-BHC	5	1.82	U	
5103-71-9	alpha-Chlordane	5	2.45	D	J
319-85-7	beta-BHC	5	1.82	U	
57-74-9	Chlordane, total	5	36.4	U	
319-86-8	delta-BHC	5	1.82	U	
60-57-1	Dieldrin	5	1.82	U	
959-98-8	Endosulfan I	5	1.82	U	
33213-65-9	Endosulfan II	5	1.82	U	
1031-07-8	Endosulfan sulfate	5	1.82	U	
72-20-8	Endrin	5	1.82	U	
7421-93-4	Endrin aldehyde	5	1.82	U	
53494-70-5	Endrin ketone	5	1.82	U	
58-89-9	gamma-BHC (Lindane)	5	1.82	U	
5566-34-7	gamma-Chlordane	5	2.80	D	J
76-44-8	Heptachlor	5	1.82	U	
1024-57-3	Heptachlor epoxide	5	1.82	U	
72-43-5	Methoxychlor	5	9.10	U	
8001-35-2	Toxaphene	5	92.1	U	
2385-85-5	Mirex	5	1.82	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	73.5	50.8	69.1	30 - 150	
Tetrachloro-m-xylene	73.5	43.5	59.2	30 - 150	

* Values outside of QC limits

MKP 2/2/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID: P600426346.D

Sampled: 11/07/23 13:30 Prepared: 11/16/23 08:27 Analyzed: 11/17/23 07:02

Solids: 66.43 Preparation: EPA 3550C Initial/Final: 30.6 g / 10 mL

Batch: BK31062 Sequence: S3K1651 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.43	U
72-55-9	4,4'-DDE	5	2.43	U
50-29-3	4,4'-DDT	5	2.43	U
309-00-2	Aldrin	5	2.43	U
319-84-6	alpha-BHC	5	2.43	U
5103-71-9	alpha-Chlordane	5	2.43	U
319-85-7	beta-BHC	5	2.43	U
57-74-9	Chlordane, total	5	48.7	U
319-86-8	delta-BHC	5	2.43	U
60-57-1	Dieldrin	5	2.43	U
959-98-8	Endosulfan I	5	2.43	U
33213-65-9	Endosulfan II	5	2.43	U
1031-07-8	Endosulfan sulfate	5	2.43	U
72-20-8	Endrin	5	2.43	U
7421-93-4	Endrin aldehyde	5	2.43	U
53494-70-5	Endrin ketone	5	2.43	U
58-89-9	gamma-BHC (Lindane)	5	2.43	U
5566-34-7	gamma-Chlordane	5	2.43	U
76-44-8	Heptachlor	5	2.43	U
1024-57-3	Heptachlor epoxide	5	2.43	U
72-43-5	Methoxychlor	5	12.2	U
8001-35-2	Toxaphene	5	123	U
2385-85-5	Mirex	5	2.43	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	98.4	70.9	72.0	30 - 150	
Tetrachloro-m-xylene	98.4	59.1	60.1	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0672

Client: Touchstone Environmental Geology, PC | Project: 100 East 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0672-03 | File ID: P600426347.D

Sampled: 11/07/23 14:00 | Prepared: 11/16/23 08:27 | Analyzed: 11/17/23 07:24

Solids: 60.81 | Preparation: EPA 3550C | Initial/Final: 30.1 g / 10 mL

Batch: BK31062 | Sequence: S3K1651 | Calibration: SJ30007 | Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.70	U
72-55-9	4,4'-DDE	5	2.70	U
50-29-3	4,4'-DDT	5	2.70	U
309-00-2	Aldrin	5	2.70	U
319-84-6	alpha-BHC	5	2.70	U
5103-71-9	alpha-Chlordane	5	2.70	U
319-85-7	beta-BHC	5	2.70	U
57-74-9	Chlordane, total	5	54.1	U
319-86-8	delta-BHC	5	2.70	U
60-57-1	Dieldrin	5	2.70	U
959-98-8	Endosulfan I	5	2.70	U
33213-65-9	Endosulfan II	5	2.70	U
1031-07-8	Endosulfan sulfate	5	2.70	U
72-20-8	Endrin	5	2.70	U
7421-93-4	Endrin aldehyde	5	2.70	U
53494-70-5	Endrin ketone	5	2.70	U
58-89-9	gamma-BHC (Lindane)	5	2.70	U
5566-34-7	gamma-Chlordane	5	2.70	U
76-44-8	Heptachlor	5	2.70	U
1024-57-3	Heptachlor epoxide	5	2.70	U
72-43-5	Methoxychlor	5	13.5	U
8001-35-2	Toxaphene	5	137	U
2385-85-5	Mirex	5	2.70	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	109	83.9	76.8	30 - 150	
Tetrachloro-m-xylene	109	110	101	30 - 150	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: P600426350.D

Sampled: 11/07/23 14:30 Prepared: 11/16/23 08:27 Analyzed: 11/17/23 08:29

Solids: 82.99 Preparation: EPA 3550C Initial/Final: 30.9 g / 10 mL

Batch: BK31062 Sequence: S3K1651 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	1.93	U
72-55-9	4,4'-DDE	5	1.93	U
50-29-3	4,4'-DDT	5	1.93	U
309-00-2	Aldrin	5	1.93	U
319-84-6	alpha-BHC	5	1.93	U
5103-71-9	alpha-Chlordane	5	1.93	U
319-85-7	beta-BHC	5	1.93	U
57-74-9	Chlordane, total	5	38.6	U
319-86-8	delta-BHC	5	1.93	U
60-57-1	Dieldrin	5	1.93	U
959-98-8	Endosulfan I	5	1.93	U
33213-65-9	Endosulfan II	5	1.93	U
1031-07-8	Endosulfan sulfate	5	1.93	U
72-20-8	Endrin	5	1.93	U
7421-93-4	Endrin aldehyde	5	1.93	U
53494-70-5	Endrin ketone	5	1.93	U
58-89-9	gamma-BHC (Lindane)	5	1.93	U
5566-34-7	gamma-Chlordane	5	1.93	U
76-44-8	Heptachlor	5	1.93	U
1024-57-3	Heptachlor epoxide	5	1.93	U
72-43-5	Methoxychlor	5	9.65	U
8001-35-2	Toxaphene	5	97.7	U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	78.0	57.2	73.3	30 - 150	
Tetrachloro-m-xylene	78.0	40.7	52.2	30 - 150	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: ARO

METHOD: EPA 8082A

No data validation qualifiers were added

MKP 2/2/2024

DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP2 (0-2.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-01	File ID:	P1133524.D
Sampled:	11/07/23 13:15	Prepared:	11/16/23 08:27	Analyzed:	11/17/23 13:11
Solids:	89.76	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BK31062	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0184	U
11104-28-2	Aroclor 1221	1	0.0184	U
11141-16-5	Aroclor 1232	1	0.0184	U
53469-21-9	Aroclor 1242	1	0.0184	U
12672-29-6	Aroclor 1248	1	0.0184	U
11097-69-1	Aroclor 1254	1	0.0184	U
11096-82-5	Aroclor 1260	1	0.0184	U
1336-36-3	Total PCBs	1	0.0184	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0735	0.0401	54.5	30 - 140	
Decachlorobiphenyl	0.0735	0.0482	65.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP2 (15-17.5)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-02	File ID:	P1133525.D
Sampled:	11/07/23 13:30	Prepared:	11/16/23 08:27	Analyzed:	11/17/23 13:25
Solids:	66.43	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BK31062	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0246	U
11104-28-2	Aroclor 1221	1	0.0246	U
11141-16-5	Aroclor 1232	1	0.0246	U
53469-21-9	Aroclor 1242	1	0.0246	U
12672-29-6	Aroclor 1248	1	0.0246	U
11097-69-1	Aroclor 1254	1	0.0246	U
11096-82-5	Aroclor 1260	1	0.0246	U
1336-36-3	Total PCBs	1	0.0246	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0984	0.0526	53.5	30 - 140	
Decachlorobiphenyl	0.0984	0.0644	65.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP2 (18-20)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-03	File ID:	P1133526.D
Sampled:	11/07/23 14:00	Prepared:	11/16/23 08:27	Analyzed:	11/17/23 13:39
Solids:	60.81	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31062	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0273	U
11104-28-2	Aroclor 1221	1	0.0273	U
11141-16-5	Aroclor 1232	1	0.0273	U
53469-21-9	Aroclor 1242	1	0.0273	U
12672-29-6	Aroclor 1248	1	0.0273	U
11097-69-1	Aroclor 1254	1	0.0273	U
11096-82-5	Aroclor 1260	1	0.0273	U
1336-36-3	Total PCBs	1	0.0273	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.109	0.0896	82.0	30 - 140	
Decachlorobiphenyl	0.109	0.0721	66.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP2 (27.5-30)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0672
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0672-04	File ID:	P1133527.D
Sampled:	11/07/23 14:30	Prepared:	11/16/23 08:27	Analyzed:	11/17/23 13:52
Solids:	82.99	Preparation:	EPA 3550C	Initial/Final:	30.9 g / 10 mL
Batch:	BK31062	Sequence:	S3K1746	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0195	U
11104-28-2	Aroclor 1221	1	0.0195	U
11141-16-5	Aroclor 1232	1	0.0195	U
53469-21-9	Aroclor 1242	1	0.0195	U
12672-29-6	Aroclor 1248	1	0.0195	U
11097-69-1	Aroclor 1254	1	0.0195	U
11096-82-5	Aroclor 1260	1	0.0195	U
1336-36-3	Total PCBs	1	0.0195	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0780	0.0409	52.5	30 - 140	
Decachlorobiphenyl	0.0780	0.0519	66.5	30 - 140	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: METALS

METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID: QBICP2-111623BRE_1-079

Sampled: 11/07/23 13:15 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 17:09

Solids: 89.76 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	12300	1		EPA 6010D	
7440-36-0	Antimony	2.32	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	13.8	1		EPA 6010D	
7440-39-3	Barium	151	1		EPA 6010D	
7440-41-7	Beryllium	0.047	1	U	EPA 6010D	
7440-43-9	Cadmium	1.09	1		EPA 6010D	
7440-70-2	Calcium	61200	1	B	EPA 6010D	
7440-47-3	Chromium	24.8	1		EPA 6010D	
7440-48-4	Cobalt	10.0	1		EPA 6010D	
7440-50-8	Copper	88.7	1		EPA 6010D	
7439-89-6	Iron	50600	1		EPA 6010D	
7439-92-1	Lead	251	1		EPA 6010D	
7439-95-4	Magnesium	37400	1		EPA 6010D	
7439-96-5	Manganese	403	1		EPA 6010D	
7440-02-0	Nickel	26.6	1		EPA 6010D	
7440-09-7	Potassium	4340	1		EPA 6010D	
7782-49-2	Selenium	7.61	1		EPA 6010D	
7440-22-4	Silver	0.468	1	U	EPA 6010D	UJ
7440-23-5	Sodium	1860	1		EPA 6010D	J+
7440-28-0	Thallium	2.32	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	30.0	1		EPA 6010D	
7440-66-6	Zinc	55.8	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID: QBICP2-111623BRE_1-080

Sampled: 11/07/23 13:30 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 17:12

Solids: 66.43 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	14800	1		EPA 6010D	
7440-36-0	Antimony	3.14	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	3.73	1		EPA 6010D	
7440-39-3	Barium	146	1		EPA 6010D	
7440-41-7	Beryllium	0.063	1	U	EPA 6010D	
7440-43-9	Cadmium	0.376	1	U	EPA 6010D	
7440-70-2	Calcium	10500	1	B	EPA 6010D	
7440-47-3	Chromium	21.9	1		EPA 6010D	
7440-48-4	Cobalt	7.78	1		EPA 6010D	
7440-50-8	Copper	24.0	1		EPA 6010D	
7439-89-6	Iron	19500	1		EPA 6010D	
7439-92-1	Lead	143	1		EPA 6010D	
7439-95-4	Magnesium	7130	1		EPA 6010D	
7439-96-5	Manganese	261	1		EPA 6010D	
7440-02-0	Nickel	21.5	1		EPA 6010D	
7440-09-7	Potassium	1400	1		EPA 6010D	
7782-49-2	Selenium	3.45	1		EPA 6010D	
7440-22-4	Silver	0.632	1	U	EPA 6010D	UJ
7440-23-5	Sodium	440	1		EPA 6010D	J+
7440-28-0	Thallium	3.14	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	26.0	1		EPA 6010D	
7440-66-6	Zinc	51.5	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID: QBICP2-111623BRE_1-083

Sampled: 11/07/23 14:00 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 17:23

Solids: 60.81 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	8120	1		EPA 6010D	
7440-36-0	Antimony	3.43	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	24.0	1		EPA 6010D	
7440-39-3	Barium	261	1		EPA 6010D	
7440-41-7	Beryllium	0.324	1		EPA 6010D	
7440-43-9	Cadmium	0.411	1	U	EPA 6010D	
7440-70-2	Calcium	10700	1	B	EPA 6010D	
7440-47-3	Chromium	18.7	1		EPA 6010D	
7440-48-4	Cobalt	9.08	1		EPA 6010D	
7440-50-8	Copper	130	1		EPA 6010D	
7439-89-6	Iron	13200	1		EPA 6010D	
7439-92-1	Lead	539	1		EPA 6010D	
7439-95-4	Magnesium	1770	1		EPA 6010D	
7439-96-5	Manganese	193	1		EPA 6010D	
7440-02-0	Nickel	21.9	1		EPA 6010D	
7440-09-7	Potassium	851	1		EPA 6010D	
7782-49-2	Selenium	6.59	1		EPA 6010D	
7440-22-4	Silver	30.5	1		EPA 6010D	J-
7440-23-5	Sodium	1980	1		EPA 6010D	J+
7440-28-0	Thallium	3.43	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	28.7	1		EPA 6010D	
7440-66-6	Zinc	41.1	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: QBICP2-111623BRE_1-084

Sampled: 11/07/23 14:30 Prepared: 11/13/23 14:14 Analyzed: 11/16/23 17:26

Solids: 82.99 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30823 Sequence: S3K1702 Calibration: 11/16/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	10200	1		EPA 6010D	
7440-36-0	Antimony	2.51	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	2.62	1		EPA 6010D	
7440-39-3	Barium	39.1	1		EPA 6010D	
7440-41-7	Beryllium	0.051	1	U	EPA 6010D	
7440-43-9	Cadmium	0.301	1	U	EPA 6010D	
7440-70-2	Calcium	1040	1	B	EPA 6010D	
7440-47-3	Chromium	23.2	1		EPA 6010D	
7440-48-4	Cobalt	7.53	1		EPA 6010D	
7440-50-8	Copper	15.6	1		EPA 6010D	
7439-89-6	Iron	13900	1		EPA 6010D	
7439-92-1	Lead	8.29	1		EPA 6010D	
7439-95-4	Magnesium	4530	1		EPA 6010D	
7439-96-5	Manganese	118	1		EPA 6010D	
7440-02-0	Nickel	16.6	1		EPA 6010D	
7440-09-7	Potassium	2320	1		EPA 6010D	
7782-49-2	Selenium	2.97	1		EPA 6010D	
7440-22-4	Silver	0.506	1	U	EPA 6010D	UJ
7440-23-5	Sodium	50.2	1	U	EPA 6010D	
7440-28-0	Thallium	2.51	1	U	EPA 6010D	UJ
7440-62-2	Vanadium	23.7	1		EPA 6010D	
7440-66-6	Zinc	55.7	1		EPA 6010D	J+

MKP 2/2/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: HG

METHOD: EPA 7473

No data validation qualifiers were added

MKP 2/2/2024

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID: QBHg-DMA80-04 111623a

Sampled: 11/07/23 13:15 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 89.76 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.583	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID: QBHg-DMA80-04 111623a

Sampled: 11/07/23 13:30 Prepared: 11/16/23 14:05 Analyzed: 11/17/23 10:44

Solids: 66.43 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31084 Sequence: S3K1653 Calibration: 11/17/23 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.537	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID: QBHg DMA 80-03 111623a

Sampled: 11/07/23 14:00 Prepared: 11/16/23 14:18 Analyzed: 11/17/23 11:04

Solids: 60.81 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31085 Sequence: S3K1652 Calibration: 11/17/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	26.5	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID: QBHg DMA 80-03 111623a

Sampled: 11/07/23 14:30 Prepared: 11/16/23 14:18 Analyzed: 11/17/23 11:04

Solids: 82.99 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31085 Sequence: S3K1652 Calibration: 11/17/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0375	1		EPA 7473

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: WET

METHOD: Calculation

No data validation qualifiers were added

MKP 2/2/2024

DATA PACKAGE COVER PAGE

Calculation

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID:

Sampled: 11/07/23 13:15 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 89.76 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	24.8	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID:

Sampled: 11/07/23 13:30 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 66.43 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	21.9	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID:

Sampled: 11/07/23 14:00 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 60.81 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	18.7	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID:

Sampled: 11/07/23 14:30 Prepared: 11/17/23 07:12 Analyzed: 11/17/23 09:33

Solids: 82.99 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31120 Sequence: Calibration: 11/17/23 0 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	23.2	1		Calculation

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: WET

METHOD: EPA 7196A

No data validation qualifiers were added

MKP 2/2/2024

DATA PACKAGE COVER PAGE

EPA 7196A

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID:

Sampled: 11/07/23 13:15 Prepared: 11/16/23 06:21 Analyzed: 11/16/23 13:29

Solids: 89.76 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31033 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.557	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID:

Sampled: 11/07/23 13:30 Prepared: 11/16/23 06:21 Analyzed: 11/16/23 13:29

Solids: 66.43 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31033 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.753	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID:

Sampled: 11/07/23 14:00 Prepared: 11/16/23 06:21 Analyzed: 11/16/23 13:29

Solids: 60.81 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31033 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.822	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID:

Sampled: 11/07/23 14:30 Prepared: 11/16/23 06:21 Analyzed: 11/16/23 13:29

Solids: 82.99 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31033 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.602	1	U	EPA 7196A

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

CLASS: WET

METHOD: EPA 9014/9010C

No data validation qualifiers were added

MKP 2/2/2024

DATA PACKAGE COVER PAGE

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

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Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID:

Sampled: 11/07/23 13:15 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 89.76 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.557	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID:

Sampled: 11/07/23 13:30 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 66.43 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.753	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID:

Sampled: 11/07/23 14:00 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 60.81 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	1.23	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID:

Sampled: 11/07/23 14:30 Prepared: 11/15/23 14:34 Analyzed: 11/15/23 23:11

Solids: 82.99 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31003 Sequence: Calibration: 11/15/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.602	1	U	EPA 9014/9010C

BENCHSHEETS

SDG: 23K0672

CLASS: WET

METHOD: SM 2540G

No data validation qualifiers were added

MKP 2/2/2024

DATA PACKAGE COVER PAGE

SM 2540G

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP2 (0-2.5)	23K0672-01
23SP2 (15-17.5)	23K0672-02
23SP2 (18-20)	23K0672-03
23SP2 (27.5-30)	23K0672-04

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Signature:

Name: Cassie L. Mosher

Date: 12/13/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-01 File ID:

Sampled: 11/07/23 13:15 Prepared: 11/14/23 11:43 Analyzed: 11/14/23 16:15

Solids: 89.76 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30903 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	89.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP2 (15-17.5)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-02 File ID:

Sampled: 11/07/23 13:30 Prepared: 11/14/23 11:43 Analyzed: 11/14/23 16:15

Solids: 66.43 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30903 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	66.4	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP2 (18-20)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-03 File ID:

Sampled: 11/07/23 14:00 Prepared: 11/14/23 11:43 Analyzed: 11/14/23 16:15

Solids: 60.81 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30903 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	60.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP2 (27.5-30)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0672

Client: Touchstone Environmental Geology, PC Project: 100 East 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0672-04 File ID:

Sampled: 11/07/23 14:30 Prepared: 11/14/23 11:43 Analyzed: 11/14/23 16:15

Solids: 82.99 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30903 Sequence: Calibration: 11/14/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	83.0	1		SM 2540G

Appendix B

Laboratory QC Documentation

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1515
Instrument: VOA No. 3
Calibration: SJ30040

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1515-CCV1)			Lab File ID: V3178160.D		Analyzed: 11/14/23 09:25			
SURR: 1,2-Dichloroethane-d4	50.0	99.0	80 - 120	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	80 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.7	80 - 120	10.142	10.158	-0.0160	+/-1.00	
LCS (BK30860-BS1)			Lab File ID: V3178161.D		Analyzed: 11/14/23 10:01			
SURR: 1,2-Dichloroethane-d4	50.0	98.6	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	82.3	76 - 130	10.142	10.158	-0.0160	+/-1.00	
LCS Dup (BK30860-BSD1)			Lab File ID: V3178162.D		Analyzed: 11/14/23 10:27			
SURR: 1,2-Dichloroethane-d4	50.0	98.5	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	82.9	76 - 130	10.142	10.158	-0.0160	+/-1.00	
Blank (BK30860-BLK1)			Lab File ID: V3178163.D		Analyzed: 11/14/23 10:53			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.8	76 - 130	10.139	10.158	-0.0190	+/-1.00	
Blank (BK30860-BLK2)			Lab File ID: V3178164.D		Analyzed: 11/14/23 11:20			
SURR: 1,2-Dichloroethane-d4	50.0	101	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	83.0	76 - 130	10.139	10.158	-0.0190	+/-1.00	
23SP2 (15-17.5) (23K0672-02)			Lab File ID: V3178170.D		Analyzed: 11/14/23 13:57			
SURR: 1,2-Dichloroethane-d4	50.0	75.7	77 - 125	5.579	5.590429	-0.0114	+/-1.00	*
SURR: Toluene-d8	50.0	95.0	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	86.3	76 - 130	10.142	10.158	-0.0160	+/-1.00	
23SP2 (27.5-30) (23K0672-04)			Lab File ID: V3178172.D		Analyzed: 11/14/23 14:50			
SURR: 1,2-Dichloroethane-d4	50.0	99.0	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	99.8	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.4	76 - 130	10.139	10.158	-0.0190	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1611
Instrument: VOA No. 3
Calibration: SJ30040

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1611-CCV1)			Lab File ID: V3178187.D		Analyzed: 11/15/23 10:27			
SURR: 1,2-Dichloroethane-d4	50.0	96.1	80 - 120	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	80 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.8	80 - 120	10.142	10.158	-0.0160	+/-1.00	
LCS (BK30917-BS1)			Lab File ID: V3178188.D		Analyzed: 11/15/23 11:03			
SURR: 1,2-Dichloroethane-d4	50.0	96.4	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	82.3	76 - 130	10.142	10.158	-0.0160	+/-1.00	
LCS Dup (BK30917-BSD1)			Lab File ID: V3178189.D		Analyzed: 11/15/23 11:29			
SURR: 1,2-Dichloroethane-d4	50.0	98.0	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	100	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.8	76 - 130	10.142	10.158	-0.0160	+/-1.00	
Blank (BK30917-BLK1)			Lab File ID: V3178190.D		Analyzed: 11/15/23 11:55			
SURR: 1,2-Dichloroethane-d4	50.0	99.9	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	100	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.9	76 - 130	10.142	10.158	-0.0160	+/-1.00	
Blank (BK30917-BLK2)			Lab File ID: V3178191.D		Analyzed: 11/15/23 12:21			
SURR: 1,2-Dichloroethane-d4	50.0	100	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	99.9	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	82.3	76 - 130	10.142	10.158	-0.0160	+/-1.00	
23SP2 (18-20) (23K0672-03)			Lab File ID: V3178194.D		Analyzed: 11/15/23 13:40			
SURR: 1,2-Dichloroethane-d4	50.0	80.2	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	99.9	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	90.2	76 - 130	10.139	10.158	-0.0190	+/-1.00	
23SP2 (15-17.5) (23K0672-02RE1)			Lab File ID: V3178195.D		Analyzed: 11/15/23 14:06			
SURR: 1,2-Dichloroethane-d4	50.0	53.5	77 - 125	5.576	5.590429	-0.0144	+/-1.00	*
SURR: Toluene-d8	50.0	96.9	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	116	76 - 130	10.142	10.158	-0.0160	+/-1.00	
23SP2 (15-17.5) (23K0672-02RE2)			Lab File ID: V3178207.D		Analyzed: 11/15/23 19:20			
SURR: 1,2-Dichloroethane-d4	50.0	68.4	77 - 125	5.576	5.590429	-0.0144	+/-1.00	*
SURR: Toluene-d8	50.0	97.2	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.4	76 - 130	10.142	10.158	-0.0160	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30860	Laboratory ID:	BK30860-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	48	95.4	75 - 129
1,1,1-Trichloroethane	50.0	42	84.8	71 - 137
1,1,2,2-Tetrachloroethane	50.0	42	84.1	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	46	91.1	58 - 146
1,1,2-Trichloroethane	50.0	45	89.1	83 - 123
1,1-Dichloroethane	50.0	41	82.2	75 - 130
1,1-Dichloroethylene	50.0	42	84.8	64 - 137
1,2,3-Trichlorobenzene	50.0	46	91.2	81 - 140
1,2,3-Trichloropropane	50.0	42	83.9	81 - 126
1,2,4-Trichlorobenzene	50.0	44	88.0	80 - 141
1,2,4-Trimethylbenzene	50.0	42	84.0	84 - 125
1,2-Dibromo-3-chloropropane	50.0	32	64.1 *	74 - 142
1,2-Dibromoethane	50.0	46	92.1	86 - 123
1,2-Dichlorobenzene	50.0	48	95.5	85 - 122
1,2-Dichloroethane	50.0	42	84.0	71 - 133
1,2-Dichloropropane	50.0	42	84.0	81 - 122
1,3,5-Trimethylbenzene	50.0	42	83.1	82 - 126
1,3-Dichlorobenzene	50.0	47	94.0	84 - 124
1,4-Dichlorobenzene	50.0	47	93.5	84 - 124
1,4-Dioxane	1050	410	39.0	10 - 228
2-Butanone	50.0	35	69.0	58 - 147
2-Hexanone	50.0	30	60.5 *	70 - 139
4-Methyl-2-pentanone	50.0	38	75.6	72 - 132
Acetone	50.0	28	56.1	36 - 155
Acrolein	50.0	46	91.3	10 - 238
Acrylonitrile	50.0	43	85.1	66 - 141
Benzene	50.0	44	88.1	77 - 127
Bromochloromethane	50.0	41	81.1	74 - 129
Bromodichloromethane	50.0	37	74.0 *	81 - 124
Bromoform	50.0	41	81.4	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30860	Laboratory ID:	BK30860-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	50.0	45	89.5	32 - 177
Carbon disulfide	50.0	45	89.1	10 - 136
Carbon tetrachloride	50.0	45	90.4	66 - 143
Chlorobenzene	50.0	48	97.0	86 - 120
Chloroethane	50.0	42	84.4	51 - 142
Chloroform	50.0	43	86.1	76 - 131
Chloromethane	50.0	43	85.3	49 - 132
cis-1,2-Dichloroethylene	50.0	41	81.8	74 - 132
cis-1,3-Dichloropropylene	50.0	41	82.1	81 - 129
Cyclohexane	50.0	41	81.5	70 - 130
Dibromochloromethane	50.0	39	78.5	10 - 200
Dibromomethane	50.0	44	87.3	83 - 124
Dichlorodifluoromethane	50.0	46	92.2	28 - 158
Ethyl Benzene	50.0	44	88.8	84 - 125
Hexachlorobutadiene	50.0	44	89.0	83 - 133
Isopropylbenzene	50.0	42	83.3	81 - 127
Methyl acetate	50.0	36	72.6	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	39	78.2	74 - 131
Methylcyclohexane	50.0	42	83.1	70 - 130
Methylene chloride	50.0	41	82.8	57 - 141
n-Butylbenzene	50.0	40	80.9	80 - 130
n-Propylbenzene	50.0	41	81.2	74 - 136
o-Xylene	50.0	45	89.5	83 - 123
p- & m- Xylenes	100	90	90.3	82 - 128
p-Isopropyltoluene	50.0	43	87.0	85 - 125
sec-Butylbenzene	50.0	43	85.4	83 - 125
Styrene	50.0	47	94.2	86 - 126
tert-Butyl alcohol (TBA)	250	170	69.4 *	70 - 130
tert-Butylbenzene	50.0	43	85.9	80 - 127
Tetrachloroethylene	50.0	41	81.2	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30860	Laboratory ID:	BK30860-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	52	103	7.91	30	75 - 129
1,1,1-Trichloroethane	50.0	46	91.9	8.08	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	45	90.1	6.89	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	50	101	9.99	30	58 - 146
1,1,2-Trichloroethane	50.0	48	95.0	6.45	30	83 - 123
1,1-Dichloroethane	50.0	44	88.9	7.85	30	75 - 130
1,1-Dichloroethylene	50.0	45	90.8	6.88	30	64 - 137
1,2,3-Trichlorobenzene	50.0	49	97.6	6.78	30	81 - 140
1,2,3-Trichloropropane	50.0	45	90.0	6.95	30	81 - 126
1,2,4-Trichlorobenzene	50.0	47	93.5	6.04	30	80 - 141
1,2,4-Trimethylbenzene	50.0	45	90.9	7.94	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	35	69.3 *	7.74	30	74 - 142
1,2-Dibromoethane	50.0	50	99.7	7.97	30	86 - 123
1,2-Dichlorobenzene	50.0	51	102	6.84	30	85 - 122
1,2-Dichloroethane	50.0	45	90.4	7.30	30	71 - 133
1,2-Dichloropropane	50.0	45	90.8	7.78	30	81 - 122
1,3,5-Trimethylbenzene	50.0	45	89.4	7.24	30	82 - 126
1,3-Dichlorobenzene	50.0	51	101	7.44	30	84 - 124
1,4-Dichlorobenzene	50.0	50	100	7.04	30	84 - 124
1,4-Dioxane	1050	440	42.3	8.12	30	10 - 228
2-Butanone	50.0	38	75.4	8.78	30	58 - 147
2-Hexanone	50.0	33	65.5 *	7.97	30	70 - 139
4-Methyl-2-pentanone	50.0	41	81.5	7.44	30	72 - 132
Acetone	50.0	30	59.2	5.48	30	36 - 155
Acrolein	50.0	49	97.8	6.85	30	10 - 238
Acrylonitrile	50.0	45	90.5	6.15	30	66 - 141
Benzene	50.0	48	95.2	7.70	30	77 - 127
Bromochloromethane	50.0	44	87.1	7.18	30	74 - 129
Bromodichloromethane	50.0	40	80.5 *	8.36	30	81 - 124
Bromoform	50.0	44	87.1	6.79	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	48	96.3	75 - 129
1,1,1-Trichloroethane	50.0	43	87.0	71 - 137
1,1,2,2-Tetrachloroethane	50.0	41	81.6	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	41	81.3	58 - 146
1,1,2-Trichloroethane	50.0	44	88.5	83 - 123
1,1-Dichloroethane	50.0	42	83.9	75 - 130
1,1-Dichloroethylene	50.0	42	84.7	64 - 137
1,2,3-Trichlorobenzene	50.0	46	92.1	81 - 140
1,2,3-Trichloropropane	50.0	41	82.3	81 - 126
1,2,4-Trichlorobenzene	50.0	44	88.6	80 - 141
1,2,4-Trimethylbenzene	50.0	43	85.6	84 - 125
1,2-Dibromo-3-chloropropane	50.0	31	62.5 *	74 - 142
1,2-Dibromoethane	50.0	46	92.7	86 - 123
1,2-Dichlorobenzene	50.0	48	95.8	85 - 122
1,2-Dichloroethane	50.0	42	84.4	71 - 133
1,2-Dichloropropane	50.0	43	85.5	81 - 122
1,3,5-Trimethylbenzene	50.0	42	84.3	82 - 126
1,3-Dichlorobenzene	50.0	47	94.8	84 - 124
1,4-Dichlorobenzene	50.0	47	93.9	84 - 124
1,4-Dioxane	1050	410	39.2	10 - 228
2-Butanone	50.0	37	73.1	58 - 147
2-Hexanone	50.0	31	61.1 *	70 - 139
4-Methyl-2-pentanone	50.0	37	74.0	72 - 132
Acetone	50.0	30	60.6	36 - 155
Acrolein	50.0	39	77.8	10 - 238
Acrylonitrile	50.0	41	82.7	66 - 141
Benzene	50.0	45	90.2	77 - 127
Bromochloromethane	50.0	41	81.4	74 - 129
Bromodichloromethane	50.0	38	75.2 *	81 - 124
Bromoform	50.0	40	80.7	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	50.0	49	98.9	32 - 177
Carbon disulfide	50.0	46	92.0	10 - 136
Carbon tetrachloride	50.0	46	92.1	66 - 143
Chlorobenzene	50.0	49	98.0	86 - 120
Chloroethane	50.0	47	93.2	51 - 142
Chloroform	50.0	44	87.7	76 - 131
Chloromethane	50.0	45	90.9	49 - 132
cis-1,2-Dichloroethylene	50.0	41	82.8	74 - 132
cis-1,3-Dichloropropylene	50.0	41	82.9	81 - 129
Cyclohexane	50.0	42	83.1	70 - 130
Dibromochloromethane	50.0	39	78.6	10 - 200
Dibromomethane	50.0	43	86.6	83 - 124
Dichlorodifluoromethane	50.0	56	112	28 - 158
Ethyl Benzene	50.0	45	89.5	84 - 125
Hexachlorobutadiene	50.0	46	91.4	83 - 133
Isopropylbenzene	50.0	42	85.0	81 - 127
Methyl acetate	50.0	36	72.3	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	40	80.3	74 - 131
Methylcyclohexane	50.0	43	85.5	70 - 130
Methylene chloride	50.0	40	79.5	57 - 141
n-Butylbenzene	50.0	41	81.1	80 - 130
n-Propylbenzene	50.0	41	82.0	74 - 136
o-Xylene	50.0	45	89.8	83 - 123
p- & m- Xylenes	100	91	90.7	82 - 128
p-Isopropyltoluene	50.0	44	87.8	85 - 125
sec-Butylbenzene	50.0	43	86.8	83 - 125
Styrene	50.0	47	94.9	86 - 126
tert-Butyl alcohol (TBA)	250	170	68.8 *	70 - 130
tert-Butylbenzene	50.0	44	87.6	80 - 127
Tetrachloroethylene	50.0	42	84.1	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #		QC LIMITS REC.
Toluene	50.0	45	89.8		85 - 121
trans-1,2-Dichloroethylene	50.0	43	85.1		72 - 132
trans-1,3-Dichloropropylene	50.0	36	71.1	*	78 - 132
trans-1,4-dichloro-2-butene	50.0	35	69.2	*	75 - 135
Trichloroethylene	50.0	44	88.0		84 - 123
Trichlorofluoromethane	50.0	49	98.0		62 - 140
Vinyl Chloride	50.0	48	95.8		52 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	51	102		5.63	30	75 - 129
1,1,1-Trichloroethane	50.0	45	90.7		4.21	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	43	86.7		6.01	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	40	79.3		2.44	30	58 - 146
1,1,2-Trichloroethane	50.0	47	94.6		6.67	30	83 - 123
1,1-Dichloroethane	50.0	44	88.2		5.04	30	75 - 130
1,1-Dichloroethylene	50.0	42	83.4		1.62	30	64 - 137
1,2,3-Trichlorobenzene	50.0	48	96.6		4.75	30	81 - 140
1,2,3-Trichloropropane	50.0	44	87.4		5.96	30	81 - 126
1,2,4-Trichlorobenzene	50.0	46	92.3		4.09	30	80 - 141
1,2,4-Trimethylbenzene	50.0	44	88.2		3.04	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	33	66.9	*	6.77	30	74 - 142
1,2-Dibromoethane	50.0	49	98.7		6.33	30	86 - 123
1,2-Dichlorobenzene	50.0	50	100		4.75	30	85 - 122
1,2-Dichloroethane	50.0	45	90.2		6.64	30	71 - 133
1,2-Dichloropropane	50.0	45	89.6		4.61	30	81 - 122
1,3,5-Trimethylbenzene	50.0	43	86.8		2.90	30	82 - 126
1,3-Dichlorobenzene	50.0	49	98.9		4.25	30	84 - 124
1,4-Dichlorobenzene	50.0	49	98.1		4.31	30	84 - 124
1,4-Dioxane	1050	440	41.6		5.96	30	10 - 228
2-Butanone	50.0	39	78.7		7.43	30	58 - 147
2-Hexanone	50.0	33	65.9	*	7.56	30	70 - 139
4-Methyl-2-pentanone	50.0	40	80.0		7.79	30	72 - 132
Acetone	50.0	33	65.0		7.07	30	36 - 155
Acrolein	50.0	39	77.2		0.851	30	10 - 238
Acrylonitrile	50.0	45	89.6		7.96	30	66 - 141
Benzene	50.0	47	94.6		4.74	30	77 - 127
Bromochloromethane	50.0	43	86.2		5.68	30	74 - 129
Bromodichloromethane	50.0	40	79.7	*	5.81	30	81 - 124
Bromoform	50.0	43	87.0		7.52	30	80 - 136

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1515
Instrument: VOA No. 3
Calibration: SJ30040

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1515-CCV1)			Lab File ID: V3178160.D			Analyzed: 11/14/23 09:25			
ISTD: Fluorobenzene	119194	5.842				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	532696	8.874				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	239423	11.862				50 - 200		+/-0.17	
LCS (BK30860-BS1)			Lab File ID: V3178161.D			Analyzed: 11/14/23 10:01			
ISTD: Fluorobenzene	120880	5.842	119194	5.842	101	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	537793	8.871	532696	8.874	101	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	242266	11.862	239423	11.862	101	50 - 200	0.0000	+/-0.17	
LCS Dup (BK30860-BSD1)			Lab File ID: V3178162.D			Analyzed: 11/14/23 10:27			
ISTD: Fluorobenzene	120855	5.842	119194	5.842	101	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	540489	8.871	532696	8.874	101	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	242218	11.862	239423	11.862	101	50 - 200	0.0000	+/-0.17	
Blank (BK30860-BLK1)			Lab File ID: V3178163.D			Analyzed: 11/14/23 10:53			
ISTD: Fluorobenzene	120141	5.842	119194	5.842	101	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	530977	8.874	532696	8.874	100	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	237300	11.862	239423	11.862	99	50 - 200	0.0000	+/-0.17	
Blank (BK30860-BLK2)			Lab File ID: V3178164.D			Analyzed: 11/14/23 11:20			
ISTD: Fluorobenzene	117079	5.842	119194	5.842	98	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	517331	8.874	532696	8.874	97	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	227298	11.862	239423	11.862	95	50 - 200	0.0000	+/-0.17	
23SP2 (15-17.5) (23K0672-02)			Lab File ID: V3178170.D			Analyzed: 11/14/23 13:57			
ISTD: Fluorobenzene	18157	5.849	119194	5.842	15	50 - 200	0.0070	+/-0.17	*
ISTD: Chlorobenzene-d5	35576	8.875	532696	8.874	7	50 - 200	0.0010	+/-0.17	*
ISTD: 1,2-Dichlorobenzene-d4	17551	11.859	239423	11.862	7	50 - 200	-0.0030	+/-0.17	*
23SP2 (27.5-30) (23K0672-04)			Lab File ID: V3178172.D			Analyzed: 11/14/23 14:50			
ISTD: Fluorobenzene	128004	5.842	119194	5.842	107	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	577929	8.871	532696	8.874	108	50 - 200	-0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	260962	11.862	239423	11.862	109	50 - 200	0.0000	+/-0.17	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1611
Instrument: VOA No. 3
Calibration: SJ30040

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1611-CCV1)			Lab File ID: V3178187.D			Analyzed: 11/15/23 10:27			
ISTD: Fluorobenzene	125307	5.845				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	557292	8.871				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	249463	11.862				50 - 200		+/-0.17	
LCS (BK30917-BS1)			Lab File ID: V3178188.D			Analyzed: 11/15/23 11:03			
ISTD: Fluorobenzene	125000	5.842	125307	5.845	100	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	555336	8.874	557292	8.871	100	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	247952	11.862	249463	11.862	99	50 - 200	0.0000	+/-0.17	
LCS Dup (BK30917-BSD1)			Lab File ID: V3178189.D			Analyzed: 11/15/23 11:29			
ISTD: Fluorobenzene	126694	5.845	125307	5.845	101	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	570145	8.874	557292	8.871	102	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	257248	11.862	249463	11.862	103	50 - 200	0.0000	+/-0.17	
Blank (BK30917-BLK1)			Lab File ID: V3178190.D			Analyzed: 11/15/23 11:55			
ISTD: Fluorobenzene	120744	5.842	125307	5.845	96	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	536391	8.874	557292	8.871	96	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	237444	11.862	249463	11.862	95	50 - 200	0.0000	+/-0.17	
Blank (BK30917-BLK2)			Lab File ID: V3178191.D			Analyzed: 11/15/23 12:21			
ISTD: Fluorobenzene	121266	5.842	125307	5.845	97	50 - 200	-0.0030	+/-0.17	
ISTD: Chlorobenzene-d5	538607	8.875	557292	8.871	97	50 - 200	0.0040	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	237114	11.862	249463	11.862	95	50 - 200	0.0000	+/-0.17	
23SP2 (18-20) (23K0672-03)			Lab File ID: V3178194.D			Analyzed: 11/15/23 13:40			
ISTD: Fluorobenzene	149548	5.845	125307	5.845	119	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	493721	8.871	557292	8.871	89	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	219671	11.862	249463	11.862	88	50 - 200	0.0000	+/-0.17	
23SP2 (15-17.5) (23K0672-02RE1)			Lab File ID: V3178195.D			Analyzed: 11/15/23 14:06			
ISTD: Fluorobenzene	257446	5.845	125307	5.845	205	50 - 200	0.0000	+/-0.17	*
ISTD: Chlorobenzene-d5	484632	8.874	557292	8.871	87	50 - 200	0.0030	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	186828	11.862	249463	11.862	75	50 - 200	0.0000	+/-0.17	
23SP2 (15-17.5) (23K0672-02RE2)			Lab File ID: V3178207.D			Analyzed: 11/15/23 19:20			
ISTD: Fluorobenzene	192673	5.845	125307	5.845	154	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	546919	8.871	557292	8.871	98	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	227221	11.862	249463	11.862	91	50 - 200	0.0000	+/-0.17	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SJ30021
Instrument: VOA#11
Calibration Date: 10/13/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2282735	8.835154	9.449429	9.606461E-03			20	
1,1,1-Trichloroethane	1.617603	8.318231	5.641714	1.960639E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4849578	6.70714	10.80271	1.278497E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.022225	3.19398	3.377143	7.516913E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.18534	6.786348	8.346428	1.964162E-02			SPCC (0.1)	
1,1-Dichloroethane	1.722498	7.160596	4.630572	0.0359176			SPCC (0.2)	
1,1-Dichloroethylene	1.415986	5.315056	3.416286	7.066917E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.502425	7.688258	5.791714	1.334989E-02			20	
1,2,3-Trichlorobenzene	0.6340316	10.32344	14.76329	1.208366E-02			20	
1,2,3-Trichloropropane	0.1579662	4.601151	10.85457	1.274144E-02			20	
1,2,4,5-Tetramethylbenzene	1.915776	16.12791	13.12614	9.066137E-03		0.9996931	0.99	
1,2,4-Trichlorobenzene	0.6937081	11.27458	14.18371	1.702821E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.107366	8.427665	11.45029	7.722642E-03			20	
1,2-Dibromo-3-chloropropane	7.707576E-02	13.02562	13.28829	4.852414E-03			SPCC (0.05)	
1,2-Dibromoethane	0.1741786	6.857981	8.891714	8.490227E-03			SPCC (0.1)	
1,2-Dichlorobenzene	1.043152	5.90937	12.35957	1.416334E-02			SPCC (0.4)	
1,2-Dichloroethane	1.120832	4.386184	6.072	1.431619E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2183941	9.991684	6.872143	2.047998E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.201627	6.219377	11.01986	1.607526E-02			20	
1,3-Dichlorobenzene	1.177606	5.341567	11.82029	1.623232E-02			SPCC (0.6)	
1,3-Dichloropropane	0.3131054	7.440319	8.517571	1.303673E-02			20	
1,4-Dichlorobenzene	1.164601	6.080036	11.92243	1.362212E-02			SPCC (0.5)	
1,4-Dioxane	1.812238E-03	10.78674	7.004571	0.022486			20	
2,2-Dichloropropane	1.436278	10.98516	5.165714	3.066459E-02			20	
2-Butanone	0.1091837	12.71846	5.213857	0.038566			SPCC (0.1)	
2-Chlorotoluene	2.10294	5.071619	10.96843	0.0114543			20	
2-Hexanone	0.1155606	13.81913	8.550286	1.111387E-02			SPCC (0.1)	
4-Chlorotoluene	1.811961	5.166473	11.092	4.89822E-03			20	
4-Methyl-2-pentanone	0.152378	14.29258	7.700286	0.0169998			SPCC (0.1)	
Acetone	0.3143832	7.604014	3.530286	7.279446E-02			SPCC (0.1)	
Acrolein	0.1020465	11.86604	3.369286	7.057725E-02			20	
Acrylonitrile	0.2339399	8.34657	4.247429	4.666386E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SJ30040
Instrument: VOA No. 3
Calibration Date: 10/28/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2384013	11.75781	9.010714	2.479249E-02			20	
1,1,1-Trichloroethane	1.834756	11.49464	5.231571	0.024939			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4714785	14.21494	10.36729	1.716081E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.234276	6.053587	3.034	5.569269E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.1782308	7.472024	7.921571	1.962079E-02			SPCC (0.1)	
1,1-Dichloroethane	2.090544	7.313482	4.247	2.056814E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.862196	6.603119	3.073	1.309328E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.704206	6.988216	5.382143	2.882049E-02			20	
1,2,3-Trichlorobenzene	0.7449893	14.78892	14.29143	0.0161332			20	
1,2,3-Trichloropropane	0.1507392	11.17688	10.41457	1.383028E-02			20	
1,2,4,5-Tetramethylbenzene	2.493437	14.85021	12.67143	7.728793E-03			20	
1,2,4-Trichlorobenzene	0.8714105	16.51116	13.71643	1.743746E-02		0.9996992	SPCC (0.2)	
1,2,4-Trimethylbenzene	2.541767	10.03764	11.00243	4.111367E-03			20	
1,2-Dibromo-3-chloropropane	6.971226E-02	27.79376	12.831	1.236637E-02		0.9992257	SPCC (0.05)	
1,2-Dibromoethane	0.1664536	7.552877	8.453143	0.0120798			SPCC (0.1)	
1,2-Dichlorobenzene	1.151762	6.665638	11.90071	1.491526E-02			SPCC (0.4)	
1,2-Dichloroethane	1.227189	4.059157	5.663429	3.237624E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2555628	6.967666	6.451	3.129295E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.654875	8.620812	10.57629	1.755904E-02			20	
1,3-Dichlorobenzene	1.336811	7.280513	11.36529	2.025003E-02			SPCC (0.6)	
1,3-Dichloropropane	0.3072879	5.273655	8.087572	1.281422E-02			20	
1,4-Dichlorobenzene	1.307678	7.41856	11.46843	2.710739E-02			SPCC (0.5)	
1,4-Dioxane	1.682105E-03	11.15415	6.588429	4.072952E-02			20	
2,2-Dichloropropane	1.5959	16.28143	4.767429	2.233768E-02		0.9994339	0.99	
2-Butanone	9.308985E-02	15.28463	4.829286	5.277066E-02		0.9992509	SPCC (0.1)	
2-Chlorotoluene	2.414105	7.906721	10.51871	1.577409E-02			20	
2-Hexanone	0.123174	15.62128	8.13	2.036163E-02		0.9990241	SPCC (0.1)	
4-Chlorotoluene	2.099079	7.652635	10.64271	2.160992E-02			20	
4-Methyl-2-pentanone	0.1675986	11.90445	7.284286	2.829886E-02			SPCC (0.1)	
Acetone	0.3653109	10.24226	3.193429	6.451558E-02			SPCC (0.1)	
Acrolein	0.1196337	11.04062	3.037286	6.786738E-02			20	
Acrylonitrile	0.2703492	10.89385	3.885857	3.358107E-02			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SJ30021
Laboratory ID: S3J1612-SCV1
Sequence: S3J1612
Standard ID: S23J075

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	50.0	49.2	-1.6	30.00
1,1,1-Trichloroethane	50.0	49.3	-1.4	30.00
1,1,2,2-Tetrachloroethane	50.0	49.4	-1.3	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	50.1	0.2	30.00
1,1,2-Trichloroethane	50.0	48.0	-4.1	30.00
1,1-Dichloroethane	50.0	47.0	-5.9	30.00
1,1-Dichloroethylene	50.0	48.2	-3.6	30.00
1,2,3-Trichlorobenzene	50.0	48.3	-3.4	30.00
1,2,3-Trichloropropane	50.0	48.9	-2.2	30.00
1,2,4-Trichlorobenzene	50.0	48.3	-3.5	30.00
1,2,4-Trimethylbenzene	50.0	50.7	1.4	30.00
1,2-Dibromo-3-chloropropane	50.0	48.7	-2.6	30.00
1,2-Dibromoethane	50.0	50.8	1.6	30.00
1,2-Dichlorobenzene	50.0	49.5	-1.0	30.00
1,2-Dichloroethane	50.0	48.6	-2.8	30.00
1,2-Dichloropropane	50.0	50.4	0.8	30.00
1,3,5-Trimethylbenzene	50.0	49.8	-0.4	30.00
1,3-Dichlorobenzene	50.0	49.1	-1.8	30.00
1,4-Dichlorobenzene	50.0	48.6	-2.9	30.00
1,4-Dioxane	1050	985	-6.2	30.00
2-Butanone	50.0	43.9	-12.1	30.00
2-Hexanone	50.0	45.7	-8.7	30.00
4-Methyl-2-pentanone	50.0	48.7	-2.7	30.00
Acetone	50.0	90.7	81.4 *	30.00
Acrolein	50.0	54.1	8.2	30.00
Acrylonitrile	50.0	49.1	-1.9	30.00
Benzene	50.0	49.2	-1.6	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SJ30040
Laboratory ID: S3J3008-SCV1
Sequence: S3J3008
Standard ID: S23J307

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	50.0	52.0	4.0	30.00
1,1,1-Trichloroethane	50.0	51.9	3.8	30.00
1,1,2,2-Tetrachloroethane	50.0	49.4	-1.2	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	51.3	2.7	30.00
1,1,2-Trichloroethane	50.0	49.2	-1.5	30.00
1,1-Dichloroethane	50.0	48.3	-3.5	30.00
1,1-Dichloroethylene	50.0	50.9	1.7	30.00
1,2,3-Trichlorobenzene	50.0	46.7	-6.5	30.00
1,2,3-Trichloropropane	50.0	48.9	-2.2	30.00
1,2,4-Trichlorobenzene	50.0	44.2	-11.7	30.00
1,2,4-Trimethylbenzene	50.0	50.3	0.5	30.00
1,2-Dibromo-3-chloropropane	50.0	42.3	-15.5	30.00
1,2-Dibromoethane	50.0	51.6	3.2	30.00
1,2-Dichlorobenzene	50.0	49.2	-1.6	30.00
1,2-Dichloroethane	50.0	50.1	0.1	30.00
1,2-Dichloropropane	50.0	50.9	1.8	30.00
1,3,5-Trimethylbenzene	50.0	50.0	0.06	30.00
1,3-Dichlorobenzene	50.0	49.3	-1.3	30.00
1,4-Dichlorobenzene	50.0	49.1	-1.8	30.00
1,4-Dioxane	1050	1090	3.7	30.00
2-Butanone	50.0	41.2	-17.7	30.00
2-Hexanone	50.0	39.8	-20.3	30.00
4-Methyl-2-pentanone	50.0	50.4	0.8	30.00
Acetone	50.0	91.2	82.3 *	30.00
Acrolein	50.0	48.6	-2.7	30.00
Acrylonitrile	50.0	50.8	1.6	30.00
Benzene	50.0	51.3	2.6	30.00

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178160.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1515	Injection Date:	11/14/23
Lab Sample ID:	S3K1515-CCV1	Injection Time:	09:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	50.0	48.6	0.2384013	0.2318808		-2.7	20
1,1,1-Trichloroethane	A	50.0	44.4	1.834756	1.62921	0.1	-11.2	20
1,1,2,2-Tetrachloroethane	A	50.0	40.9	0.4714785	0.3860531	0.3	-18.1	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	46.2	1.234276	1.13999	0.1	-7.6	20
1,1,2-Trichloroethane	A	50.0	45.2	0.1782308	0.161289	0.1	-9.5	20
1,1-Dichloroethane	A	50.0	43.8	2.090544	1.831434	0.2	-12.4	20
1,1-Dichloroethylene	A	50.0	41.2	1.862196	1.532728	0.1	-17.7	20
1,2,3-Trichlorobenzene	A	50.0	45.9	0.7449893	0.6838691		-8.2	20
1,2,3-Trichloropropane	A	50.0	41.8	0.1507392	0.1260906		-16.4	20
1,2,4-Trichlorobenzene	A	50.0	43.8	0.8714105	0.7958634	0.2	-12.5	20
1,2,4-Trimethylbenzene	A	50.0	41.8	2.541767	2.126274		-16.3	20
1,2-Dibromo-3-chloropropane	A	50.0	32.4	6.971226E-02	5.059247E-02	0.05	-35.1	20 *
1,2-Dibromoethane	A	50.0	45.9	0.1664536	0.152725	0.1	-8.2	20
1,2-Dichlorobenzene	A	50.0	48.6	1.151762	1.118673	0.4	-2.9	20
1,2-Dichloroethane	A	50.0	42.7	1.227189	1.049054	0.1	-14.5	20
1,2-Dichloropropane	A	50.0	42.5	0.2555628	0.2172064	0.1	-15.0	20
1,3,5-Trimethylbenzene	A	50.0	41.2	2.654875	2.190429		-17.5	20
1,3-Dichlorobenzene	A	50.0	48.6	1.336811	1.298167	0.6	-2.9	20
1,4-Dichlorobenzene	A	50.0	48.8	1.307678	1.27644	0.5	-2.4	20
1,4-Dioxane	A	1000	904	1.682105E-03	1.520098E-03		-9.6	20
2-Butanone	A	50.0	36.3	9.308985E-02	7.762136E-02	0.1	-27.5	20 *
2-Hexanone	A	50.0	31.9	0.123174	0.0933065	0.1 *	-36.2	20 *
4-Methyl-2-pentanone	A	50.0	38.4	0.1675986	0.1287582	0.1	-23.2	20 *
Acetone	A	50.0	36.1	0.3653109	0.2634445	0.1	-27.9	20 *
Acrolein	A	50.0	41.6	0.1196337	9.955199E-02		-16.8	20
Acrylonitrile	A	50.0	42.2	0.2703492	0.2282078		-15.6	20
Benzene	A	50.0	44.3	4.678913	4.147658	0.5	-11.4	20
Bromochloromethane	A	50.0	43.0	0.8734785	0.7509354		-14.0	20
Bromodichloromethane	A	50.0	38.0	0.289214	0.2470283	0.2	-24.0	20 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178160.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1515	Injection Date:	11/14/23
Lab Sample ID:	S3K1515-CCV1	Injection Time:	09:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	40.7	0.1029174	9.936061E-02	0.1	-18.6	20	
Bromomethane	A	50.0	43.0	0.5401878	0.4649898	0.1	-13.9	20	
Carbon disulfide	A	50.0	41.4	3.289537	2.724651	0.1	-17.2	20	
Carbon tetrachloride	A	50.0	46.6	1.653649	1.54048	0.1	-6.8	20	
Chlorobenzene	A	50.0	49.0	0.7132255	0.6994702	0.5	-1.9	20	
Chloroethane	A	50.0	41.2	0.5526341	0.4556605	0.1	-17.5	20	
Chloroform	A	50.0	44.6	1.901031	1.697762	0.2	-10.7	20	
Chloromethane	A	50.0	38.7	1.599062	1.237067	0.1	-22.6	20	*
cis-1,2-Dichloroethylene	A	50.0	42.6	1.920328	1.634034	0.1	-14.9	20	
cis-1,3-Dichloropropylene	A	50.0	42.9	0.3619211	0.3105411	0.2	-14.2	20	
Cyclohexane	A	50.0	42.9	2.495634	2.141123	0.1	-14.2	20	
Dibromochloromethane	A	50.0	39.7	0.2000949	0.1841088	0.1	-20.7	20	*
Dibromomethane	A	50.0	44.8	0.1205571	0.1080429		-10.4	20	
Dichlorodifluoromethane	A	50.0	34.6	1.320851	0.9152306	0.1	-30.7	20	*
Ethyl Benzene	A	50.0	44.5	1.329299	1.182982	0.1	-11.0	20	
Hexachlorobutadiene	A	50.0	44.6	0.5886137	0.5501769		-10.9	20	
Isopropylbenzene	A	50.0	42.2	3.290025	2.774053	0.1	-15.7	20	
Methyl acetate	A	50.0	40.6	0.6117517	0.4963085	0.1	-18.9	20	
Methyl tert-butyl ether (MTBE)	A	50.0	40.5	2.297506	1.860438	0.1	-19.0	20	
Methylcyclohexane	A	50.0	43.5	0.5604706	0.4875877	0.1	-13.0	20	
Methylene chloride	A	50.0	43.2	1.552873	1.340974	0.1	-13.6	20	
n-Butylbenzene	A	50.0	41.1	3.255092	2.677153		-17.8	20	
n-Propylbenzene	A	50.0	41.6	3.854511	3.208054		-16.8	20	
o-Xylene	A	50.0	45.5	0.9963264	0.9072754	0.3	-8.9	20	
p- & m- Xylenes	A	100	92.0	0.9954121	0.9153438	0.1	-8.0	20	
p-Isopropyltoluene	A	50.0	43.6	3.055237	2.661699		-12.9	20	
sec-Butylbenzene	A	50.0	43.5	3.515725	3.060487		-12.9	20	
Styrene	A	50.0	47.6	0.7825233	0.7447794	0.3	-4.8	20	
tert-Butyl alcohol (TBA)	A	250	174	0.0660159	4.606776E-02		-30.2	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178160.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1515	Injection Date:	11/14/23
Lab Sample ID:	S3K1515-CCV1	Injection Time:	09:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	44.1	2.383497	2.100913		-11.9	20	
Tetrachloroethylene	A	50.0	45.2	0.4064068	0.3672751	0.2	-9.6	20	
Toluene	A	50.0	44.1	1.190786	1.049383	0.4	-11.9	20	
trans-1,2-Dichloroethylene	A	50.0	42.8	1.801772	1.543484	0.1	-14.3	20	
trans-1,3-Dichloropropylene	A	50.0	36.2	0.2880767	0.2406044	0.1	-27.6	20	*
trans-1,4-dichloro-2-butene	A	50.0	34.3	0.5160392	0.3925062		-31.4	20	*
Trichloroethylene	A	50.0	43.4	0.293835	0.2550723	0.2	-13.2	20	
Trichlorofluoromethane	A	50.0	44.0	1.619736	1.424736	0.1	-12.0	20	
Vinyl Chloride	A	50.0	39.3	1.048811	0.8252009	0.1	-21.3	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178187.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1611	Injection Date:	11/15/23
Lab Sample ID:	S3K1611-CCV1	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	50.0	49.3	0.2384013	0.2350707		-1.4	20
1,1,1-Trichloroethane	A	50.0	45.2	1.834756	1.657633	0.1	-9.7	20
1,1,2,2-Tetrachloroethane	A	50.0	40.3	0.4714785	0.3802568	0.3	-19.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	45.3	1.234276	1.117886	0.1	-9.4	20
1,1,2-Trichloroethane	A	50.0	45.4	0.1782308	0.1616765	0.1	-9.3	20
1,1-Dichloroethane	A	50.0	44.3	2.090544	1.850455	0.2	-11.5	20
1,1-Dichloroethylene	A	50.0	41.2	1.862196	1.535054	0.1	-17.6	20
1,2,3-Trichlorobenzene	A	50.0	47.9	0.7449893	0.7132761		-4.3	20
1,2,3-Trichloropropane	A	50.0	41.5	0.1507392	0.1249925		-17.1	20
1,2,4-Trichlorobenzene	A	50.0	46.1	0.8714105	0.8392708	0.2	-7.8	20
1,2,4-Trimethylbenzene	A	50.0	42.5	2.541767	2.162349		-14.9	20
1,2-Dibromo-3-chloropropane	A	50.0	31.8	6.971226E-02	4.962259E-02	0.05	-36.4	20 *
1,2-Dibromoethane	A	50.0	46.4	0.1664536	0.1542997	0.1	-7.3	20
1,2-Dichlorobenzene	A	50.0	49.1	1.151762	1.131711	0.4	-1.7	20
1,2-Dichloroethane	A	50.0	43.2	1.227189	1.059614	0.1	-13.7	20
1,2-Dichloropropane	A	50.0	43.1	0.2555628	0.2202633	0.1	-13.8	20
1,3,5-Trimethylbenzene	A	50.0	42.0	2.654875	2.231674		-15.9	20
1,3-Dichlorobenzene	A	50.0	50.0	1.336811	1.335733	0.6	-0.08	20
1,4-Dichlorobenzene	A	50.0	50.0	1.307678	1.307036	0.5	-0.05	20
1,4-Dioxane	A	1000	874	1.682105E-03	1.470324E-03		-12.6	20
2-Butanone	A	50.0	35.6	9.308985E-02	0.0762607	0.1 *	-28.7	20 *
2-Hexanone	A	50.0	31.7	0.123174	9.260137E-02	0.1	-36.6	20 *
4-Methyl-2-pentanone	A	50.0	37.7	0.1675986	0.1263736	0.1	-24.6	20 *
Acetone	A	50.0	35.1	0.3653109	0.2565539	0.1	-29.8	20 *
Acrolein	A	50.0	40.6	0.1196337	0.0970257		-18.9	20
Acrylonitrile	A	50.0	40.7	0.2703492	0.2200675		-18.6	20
Benzene	A	50.0	44.7	4.678913	4.18078	0.5	-10.6	20
Bromochloromethane	A	50.0	42.0	0.8734785	0.7341489		-16.0	20
Bromodichloromethane	A	50.0	38.4	0.289214	0.249738	0.2	-23.2	20 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178187.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1611	Injection Date:	11/15/23
Lab Sample ID:	S3K1611-CCV1	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	41.6	0.1029174	0.1015033	0.1	-16.8	20	
Bromomethane	A	50.0	42.9	0.5401878	0.4633261	0.1	-14.2	20	
Carbon disulfide	A	50.0	41.4	3.289537	2.726552	0.1	-17.1	20	
Carbon tetrachloride	A	50.0	47.5	1.653649	1.569697	0.1	-5.1	20	
Chlorobenzene	A	50.0	50.0	0.7132255	0.7126874	0.5	-0.08	20	
Chloroethane	A	50.0	40.0	0.5526341	0.4426409	0.1	-19.9	20	
Chloroform	A	50.0	45.0	1.901031	1.711676	0.2	-10.0	20	
Chloromethane	A	50.0	34.7	1.599062	1.109571	0.1	-30.6	20	*
cis-1,2-Dichloroethylene	A	50.0	43.0	1.920328	1.652071	0.1	-14.0	20	
cis-1,3-Dichloropropylene	A	50.0	43.9	0.3619211	0.3180684	0.2	-12.1	20	
Cyclohexane	A	50.0	42.6	2.495634	2.124654	0.1	-14.9	20	
Dibromochloromethane	A	50.0	40.1	0.2000949	0.1861932	0.1	-19.8	20	
Dibromomethane	A	50.0	44.7	0.1205571	0.1077066		-10.7	20	
Dichlorodifluoromethane	A	50.0	28.6	1.320851	0.7546905	0.1	-42.9	20	*
Ethyl Benzene	A	50.0	45.1	1.329299	1.19987	0.1	-9.7	20	
Hexachlorobutadiene	A	50.0	46.6	0.5886137	0.5764222		-6.7	20	
Isopropylbenzene	A	50.0	43.0	3.290025	2.827477	0.1	-14.1	20	
Methyl acetate	A	50.0	39.0	0.6117517	0.4766932	0.1	-22.1	20	*
Methyl tert-butyl ether (MTBE)	A	50.0	41.4	2.297506	1.901793	0.1	-17.2	20	
Methylcyclohexane	A	50.0	44.3	0.5604706	0.4968831	0.1	-11.3	20	
Methylene chloride	A	50.0	41.0	1.552873	1.273217	0.1	-18.0	20	
n-Butylbenzene	A	50.0	42.0	3.255092	2.732121		-16.1	20	
n-Propylbenzene	A	50.0	42.3	3.854511	3.26177		-15.4	20	
o-Xylene	A	50.0	46.2	0.9963264	0.9209678	0.3	-7.6	20	
p- & m- Xylenes	A	100	92.7	0.9954121	0.9228869	0.1	-7.3	20	
p-Isopropyltoluene	A	50.0	44.5	3.055237	2.720207		-11.0	20	
sec-Butylbenzene	A	50.0	44.4	3.515725	3.12201		-11.2	20	
Styrene	A	50.0	48.2	0.7825233	0.7550458	0.3	-3.5	20	
tert-Butyl alcohol (TBA)	A	250	179	0.0660159	4.715778E-02		-28.6	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178187.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1611	Injection Date:	11/15/23
Lab Sample ID:	S3K1611-CCV1	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	45.0	2.383497	2.147665		-9.9	20	
Tetrachloroethylene	A	50.0	45.8	0.4064068	0.372137	0.2	-8.4	20	
Toluene	A	50.0	44.7	1.190786	1.065206	0.4	-10.5	20	
trans-1,2-Dichloroethylene	A	50.0	43.1	1.801772	1.554446	0.1	-13.7	20	
trans-1,3-Dichloropropylene	A	50.0	37.4	0.2880767	0.2489969	0.1	-25.1	20	*
trans-1,4-dichloro-2-butene	A	50.0	33.9	0.5160392	0.3882299		-32.2	20	*
Trichloroethylene	A	50.0	44.5	0.293835	0.2614662	0.2	-11.0	20	
Trichlorofluoromethane	A	50.0	42.7	1.619736	1.38365	0.1	-14.6	20	
Vinyl Chloride	A	50.0	37.1	1.048811	0.777291	0.1	-25.9	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31053	Laboratory ID:	BK31053-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
1,1-Biphenyl	0.831	0.634	76.3	18 - 111
1,2,4,5-Tetrachlorobenzene	0.831	0.588	70.8	21 - 131
1,2,4-Trichlorobenzene	0.831	0.612	73.7	10 - 140
1,2-Dichlorobenzene	0.831	0.559	67.3	34 - 108
1,2-Diphenylhydrazine (as Azobenzene)	0.831	0.641	77.1	17 - 137
1,3-Dichlorobenzene	0.831	0.571	68.7	33 - 110
1,4-Dichlorobenzene	0.831	0.589	70.9	32 - 104
2,3,4,6-Tetrachlorophenol	0.831	0.656	79.0	30 - 130
2,4,5-Trichlorophenol	0.831	0.594	71.5	27 - 118
2,4,6-Trichlorophenol	0.831	0.654	78.8	31 - 120
2,4-Dichlorophenol	0.831	0.654	78.8	20 - 127
2,4-Dimethylphenol	0.831	0.528	63.5	14 - 132
2,4-Dinitrophenol	0.831	0.416	50.1	10 - 171
2,4-Dinitrotoluene	0.831	0.769	92.6	34 - 131
2,6-Dinitrotoluene	0.831	0.789	95.0	31 - 128
2-Chloronaphthalene	0.831	0.602	72.4	31 - 117
2-Chlorophenol	0.831	0.625	75.2	33 - 113
2-Methylnaphthalene	0.831	0.580	69.9	12 - 138
2-Methylphenol	0.831	0.622	74.9	10 - 136
2-Nitroaniline	0.831	0.834	100	27 - 132
2-Nitrophenol	0.831	0.893	107	17 - 129
3- & 4-Methylphenols	0.831	0.412	49.6	29 - 103
3,3-Dichlorobenzidine	0.831	1.34	162 *	22 - 149
3-Nitroaniline	0.831	0.733	88.2	20 - 133
4,6-Dinitro-2-methylphenol	0.831	0.968	117	10 - 143
4-Bromophenyl phenyl ether	0.831	0.607	73.1	29 - 120
4-Chloro-3-methylphenol	0.831	0.662	79.7	24 - 129
4-Chloroaniline	0.831	0.333	40.0	10 - 132
4-Chlorophenyl phenyl ether	0.831	0.600	72.3	27 - 124
4-Nitroaniline	0.831	0.737	88.7	16 - 128

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.58448	3.544253	6.80375	0.1825872			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.4675845	4.442957	6.562125	0.1747262			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.2812595	7.114969	5.751375	0.1612923			20	
1,2-Dichlorobenzene	1.482179	4.783369	4.920125	0.1988233			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.9368827	4.714477	8.27425	0.1617629			20	
1,3-Dichlorobenzene	1.544358	5.062963	4.723	0.2029172			20	
1,4-Dichlorobenzene	1.579991	4.492532	4.75875	0.1866359			20	
2,3,4,6-Tetrachlorophenol	0.1299258	10.02989	7.845125	0.2005175			SPCC (0.01)	
2,4,5-Trichlorophenol	0.3378067	7.844157	6.690125	0.1713612			SPCC (0.2)	
2,4,6-Trichlorophenol	0.2950052	8.353011	6.653875	0.1835595			SPCC (0.2)	
2,4-Dichlorophenol	0.2488906	4.769764	5.679375	0.1569845			SPCC (0.2)	
2,4-Dimethylphenol	0.2837471	5.474553	5.518875	0.1377068			SPCC (0.2)	
2,4-Dinitrophenol	6.672327E-02	42.99398	7.518	0.1746261			SPCC (0.01)	*
2,4-Dinitrotoluene	0.3189717	21.25647	7.692375	0.1737629			SPCC (0.2)	*
2,6-Dinitrotoluene	0.2444813	18.0875	7.244375	0.1841868			SPCC (0.2)	
2-Chloronaphthalene	1.125321	4.591738	6.824875	0.1717545			SPCC (0.8)	
2-Chlorophenol	1.383042	4.584219	4.606875	0.2093262			SPCC (0.8)	
2-Methylnaphthalene	0.6576992	5.985113	6.372375	0.1672699			SPCC (0.4)	
2-Methylphenol	1.127103	3.634443	4.983375	0.1500613			SPCC (0.7)	
2-Nitroaniline	0.3470772	15.25153	6.965875	0.1845732			SPCC (0.01)	
2-Nitrophenol	0.1410626	9.017735	5.501875	0.1817565			SPCC (0.1)	
3- & 4-Methylphenols	1.710722	3.693593	5.096125	0.1983575			SPCC (0.6)	
3,3-Dichlorobenzidine	0.476604	11.07177	14.02963	0.1094211			SPCC (0.01)	
3-Nitroaniline	0.3118217	12.53309	7.405125	0.1771377			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	6.395164E-02	39.91615	8.211	0.1693039			SPCC (0.01)	*
4-Bromophenyl phenyl ether	0.1778004	4.172418	8.757125	0.1799693			SPCC (0.1)	
4-Chloro-3-methylphenol	0.2888503	4.846186	6.248125	0.1616488			SPCC (0.2)	
4-Chloroaniline	0.4199863	5.011689	5.864875	0.1927784			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.5941548	2.569765	8.06125	0.1952104			SPCC (0.4)	
4-Nitroaniline	0.3203372	12.04705	8.171	0.1791622			SPCC (0.01)	
4-Nitrophenol	0.271315	13.01804	7.564375	0.1601309			SPCC (0.01)	
Acenaphthene	1.095571	3.157927	7.464125	0.1709655			SPCC (0.9)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthylene	1.90149	3.653924	7.262	0.1807059			SPCC (0.9)	
Acetophenone	2.127855	4.954929	5.10125	0.1888992			SPCC (0.01)	
Aniline	2.054586	3.708684	4.523125	0.1660573			SPCC ()	
Anthracene	1.077212	3.930975	9.517	0.1251185			SPCC (0.7)	
Atrazine	0.1966296	5.87485	9.0785	0.1586969			SPCC (0.01)	
Benzaldehyde	1.161117	6.931282	4.408875	0.2187847			SPCC (0.01)	
Benzidine	0.5753458	12.91901	11.466	0.1323274			20	
Benzo(a)anthracene	1.29345	3.823915	13.95187	0.1203029			SPCC (0.8)	
Benzo(a)pyrene	1.167304	7.385991	16.83613	9.745885E-02			SPCC (0.7)	
Benzo(b)fluoranthene	1.217679	5.311605	16.20925	9.631515E-02			SPCC (0.7)	
Benzo(g,h,i)perylene	1.015063	7.597123	19.3115	8.603334E-02			SPCC (0.5)	
Benzo(k)fluoranthene	1.291905	4.993503	16.2565	0.1066804			SPCC (0.7)	
Benzoic acid	0.1475029	36.11995	5.595875	0.2953773			20	*
Benzyl alcohol	0.9399217	3.854087	4.882375	0.1821055			20	
Benzyl butyl phthalate	0.6216166	11.49739	13.0195	0.1101736			20	
Bis(2-chloroethoxy)methane	0.406978	7.318958	5.597125	0.1958425			SPCC (0.3)	
Bis(2-chloroethyl)ether	1.43603	3.86877	4.569	0.1734465			SPCC (0.7)	
Bis(2-chloroisopropyl)ether	1.988478	5.61948	5.002375	0.1944762			SPCC (0.01)	
Bis(2-ethylhexyl)phthalate	0.8344516	11.2304	14.35263	0.1012992			20	
Caprolactam	0.1001433	10.49855	6.13475	0.2792034			SPCC (0.01)	
Carbazole	1.023745	3.709349	9.727125	0.1186385			SPCC (0.01)	
Chrysene	1.354546	3.861438	14.0435	0.1108449			SPCC (0.7)	
Dibenzo(a,h)anthracene	0.9728928	11.21524	18.93637	0.0759342			SPCC (0.4)	
Dibenzofuran	1.632596	3.635415	7.64525	0.1840666			SPCC (0.8)	
Diethyl phthalate	1.353198	3.547448	7.972375	0.1753444			SPCC (0.01)	
Dimethyl phthalate	1.303882	3.345505	7.152875	0.1742905			SPCC (0.01)	
Di-n-butyl phthalate	1.159312	5.197642	10.28138	0.1303243			SPCC (0.01)	
Di-n-octyl phthalate	1.255997	20.74487	15.66737	8.944153E-02			SPCC (0.01)	*
Diphenylamine	0.5609292	5.133152	8.235	0.1697666			20	
Fluoranthene	1.122611	3.768362	11.17225	0.124381			SPCC (0.6)	
Fluorene	1.345643	3.248564	8.076375	0.1652907			SPCC (0.9)	
Hexachlorobenzene	0.1005795	6.131823	8.994875	0.1846889			SPCC (0.1)	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	30.4	1.5	30.00
1,2-Dichlorobenzene	30.0	28.5	-5.1	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	28.7	-4.2	30.00
1,3-Dichlorobenzene	30.0	28.4	-5.3	30.00
1,4-Dichlorobenzene	30.0	28.8	-4.1	30.00
2,3,4,6-Tetrachlorophenol	30.0	35.9	19.7	30.00
2,4,5-Trichlorophenol	30.0	30.7	2.3	30.00
2,4,6-Trichlorophenol	30.0	31.7	5.5	30.00
2,4-Dichlorophenol	30.0	31.2	4.0	30.00
2,4-Dimethylphenol	30.0	23.1	-23.0	30.00
2,4-Dinitrophenol	30.0	45.8	52.6 *	30.00
2,4-Dinitrotoluene	30.0	35.5	18.5	30.00
2,6-Dinitrotoluene	30.0	36.2	20.7	30.00
2-Chloronaphthalene	30.0	28.9	-3.6	30.00
2-Chlorophenol	30.0	30.0	0.1	30.00
2-Methylnaphthalene	30.0	29.8	-0.6	30.00
2-Methylphenol	30.0	28.8	-3.8	30.00
2-Nitroaniline	30.0	33.7	12.4	30.00
2-Nitrophenol	30.0	35.5	18.4	30.00
3- & 4-Methylphenols	30.0	25.5	-14.9	30.00
3-Nitroaniline	30.0	32.8	9.5	30.00
4,6-Dinitro-2-methylphenol	30.0	39.9	33.0 *	30.00
4-Bromophenyl phenyl ether	30.0	28.6	-4.8	30.00
4-Chloro-3-methylphenol	30.0	31.6	5.2	30.00
4-Chloroaniline	30.0	28.6	-4.6	30.00
4-Chlorophenyl phenyl ether	30.0	28.9	-3.6	30.00
4-Nitroaniline	30.0	31.8	5.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	28.2	-6.0	30.00
Hexachlorobutadiene	30.0	29.7	-0.9	30.00
Hexachlorocyclopentadiene	30.0	17.7	-40.9 *	30.00
Hexachloroethane	30.0	28.9	-3.8	30.00
Indeno(1,2,3-cd)pyrene	30.0	31.9	6.2	30.00
Isophorone	30.0	31.2	4.2	30.00
Naphthalene	30.0	29.9	-0.4	30.00
Nitrobenzene	30.0	30.4	1.2	30.00
N-Nitrosodimethylamine	30.0	28.3	-5.7	30.00
N-nitroso-di-n-propylamine	30.0	28.2	-5.9	30.00
N-Nitrosodiphenylamine	30.0	33.5	11.7	30.00
Pentachlorophenol	30.0	35.4	18.0	30.00
Phenanthrene	30.0	28.8	-3.9	30.00
Phenol	30.0	28.8	-3.9	30.00
Pyrene	30.0	28.7	-4.3	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351596.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K1734	Injection Date:	11/16/23
Lab Sample ID:	S3K1734-CCV1	Injection Time:	18:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	29.8	0.58448	0.5800564	0.01	-0.8	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	31.0	0.4675845	0.4825664	0.01	3.2	20	
1,2,4-Trichlorobenzene	A	30.0	28.5	0.2812595	0.2670845		-5.0	20	
1,2-Dichlorobenzene	A	30.0	28.8	1.482179	1.423543		-4.0	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	25.7	0.9368827	0.8022975		-14.4	20	
1,3-Dichlorobenzene	A	30.0	28.2	1.544358	1.454148		-5.8	20	
1,4-Dichlorobenzene	A	30.0	28.7	1.579991	1.511022		-4.4	20	
2,3,4,6-Tetrachlorophenol	A	30.0	33.0	0.1299258	0.142922	0.01	10.0	20	
2,4,5-Trichlorophenol	A	30.0	33.6	0.3378067	0.3785567	0.2	12.1	20	
2,4,6-Trichlorophenol	A	30.0	34.1	0.2950052	0.3350879	0.2	13.6	20	
2,4-Dichlorophenol	A	30.0	29.7	0.2488906	0.2465515	0.2	-0.9	20	
2,4-Dimethylphenol	A	30.0	28.5	0.2837471	0.2694257	0.2	-5.0	20	
2,4-Dinitrophenol	A	30.0	62.0	6.672327E-02	0.1377872	0.01	107	20	*
2,4-Dinitrotoluene	A	30.0	38.7	0.3189717	0.4112832	0.2	28.9	20	*
2,6-Dinitrotoluene	A	30.0	37.5	0.2444813	0.3057241	0.2	25.1	20	*
2-Chloronaphthalene	A	30.0	29.1	1.125321	1.090257	0.8	-3.1	20	
2-Chlorophenol	A	30.0	29.4	1.383042	1.353261	0.8	-2.2	20	
2-Methylnaphthalene	A	30.0	28.7	0.6576992	0.6283204	0.4	-4.5	20	
2-Methylphenol	A	30.0	28.5	1.127103	1.070838	0.7	-5.0	20	
2-Nitroaniline	A	30.0	34.9	0.3470772	0.4038701	0.01	16.4	20	
2-Nitrophenol	A	30.0	35.6	0.1410626	0.1671389	0.1	18.5	20	
3- & 4-Methylphenols	A	30.0	28.8	1.710722	1.642697	0.6	-4.0	20	
3,3-Dichlorobenzidine	A	30.0	31.1	0.476604	0.4947419	0.01	3.8	20	
3-Nitroaniline	A	30.0	34.4	0.3118217	0.3579752	0.01	14.8	20	
4,6-Dinitro-2-methylphenol	A	30.0	57.8	6.395164E-02	0.123285	0.01	92.8	20	*
4-Bromophenyl phenyl ether	A	30.0	32.7	0.1778004	0.193873	0.1	9.0	20	
4-Chloro-3-methylphenol	A	30.0	28.0	0.2888503	0.2700941	0.2	-6.5	20	
4-Chloroaniline	A	30.0	28.2	0.4199863	0.3951228	0.01	-5.9	20	
4-Chlorophenyl phenyl ether	A	30.0	31.5	0.5941548	0.6235086	0.4	4.9	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351596.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K1734	Injection Date:	11/16/23
Lab Sample ID:	S3K1734-CCV1	Injection Time:	18:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	32.9	0.3203372	0.3508862	0.01	9.5	20	
4-Nitrophenol	A	30.0	27.6	0.271315	0.2495202	0.01	-8.0	20	
Acenaphthene	A	30.0	29.4	1.095571	1.074277	0.9	-1.9	20	
Acenaphthylene	A	30.0	29.5	1.90149	1.869723	0.9	-1.7	20	
Acetophenone	A	30.0	27.5	2.127855	1.950386	0.01	-8.3	20	
Aniline	A	30.0	27.6	2.054586	1.891368		-7.9	20	
Anthracene	A	30.0	30.3	1.077212	1.088954	0.7	1.1	20	
Atrazine	A	30.0	33.3	0.1966296	0.2180826	0.01	10.9	20	
Benzaldehyde	A	30.0	26.7	1.161117	1.033838	0.01	-11.0	20	
Benzidine	A	30.0	29.6	0.5753458	0.568349		-1.2	20	
Benzo(a)anthracene	A	30.0	31.1	1.29345	1.34003	0.8	3.6	20	
Benzo(a)pyrene	A	30.0	29.0	1.167304	1.128325	0.7	-3.3	20	
Benzo(b)fluoranthene	A	30.0	29.6	1.217679	1.201227	0.7	-1.4	20	
Benzo(g,h,i)perylene	A	30.0	27.6	1.015063	0.9320696	0.5	-8.2	20	
Benzo(k)fluoranthene	A	30.0	26.8	1.291905	1.151805	0.7	-10.8	20	
Benzoic acid	A	30.0	26.6	0.1475029	0.1516703		2.8	20	
Benzyl alcohol	A	30.0	28.9	0.9399217	0.9061605		-3.6	20	
Benzyl butyl phthalate	A	30.0	34.8	0.6216166	0.7199387		15.8	20	
Bis(2-chloroethoxy)methane	A	30.0	25.4	0.406978	0.3453043	0.3	-15.2	20	
Bis(2-chloroethyl)ether	A	30.0	26.1	1.43603	1.247636	0.7	-13.1	20	
Bis(2-chloroisopropyl)ether	A	30.0	20.4	1.988478	1.355173	0.01	-31.8	20	*
Bis(2-ethylhexyl)phthalate	A	30.0	33.8	0.8344516	0.9395475		12.6	20	
Caprolactam	A	30.0	33.3	0.1001433	0.1111409	0.01	11.0	20	
Carbazole	A	30.0	30.2	1.023745	1.030975	0.01	0.7	20	
Chrysene	A	30.0	28.4	1.354546	1.284427	0.7	-5.2	20	
Dibenzo(a,h)anthracene	A	30.0	30.3	0.9728928	0.9833484	0.4	1.1	20	
Dibenzofuran	A	30.0	29.7	1.632596	1.614376	0.8	-1.1	20	
Diethyl phthalate	A	30.0	30.0	1.353198	1.353952	0.01	0.06	20	
Dimethyl phthalate	A	30.0	29.3	1.303882	1.271753	0.01	-2.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351596.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K1734	Injection Date:	11/16/23
Lab Sample ID:	S3K1734-CCV1	Injection Time:	18:21

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	31.5	1.159312	1.216332	0.01	4.9	20	
Di-n-octyl phthalate	A	30.0	38.4	1.255997	1.607938	0.01	28.0	20	*
Diphenylamine	A	30.0	32.1	0.5609292	0.5996923		6.9		
Fluoranthene	A	30.0	30.9	1.122611	1.154719	0.6	2.9	20	
Fluorene	A	30.0	30.6	1.345643	1.374657	0.9	2.2	20	
Hexachlorobenzene	A	30.0	27.8	0.1005795	9.316905E-02	0.1	-7.4	20	
Hexachlorobutadiene	A	30.0	28.8	0.1473557	0.1412535	0.01	-4.1	20	
Hexachlorocyclopentadiene	A	30.0	22.4	0.2725474	0.2030255	0.05	-25.5	20	*
Hexachloroethane	A	30.0	28.2	0.6058276	0.5693416	0.3	-6.0	20	
Indeno(1,2,3-cd)pyrene	A	30.0	34.3	0.9943673	0.9946237	0.5	0.03	20	
Isophorone	A	30.0	25.2	0.6839875	0.5751621	0.4	-15.9	20	
Naphthalene	A	30.0	26.9	1.014117	0.9091388	0.7	-10.4	20	
Nitrobenzene	A	30.0	25.0	0.380903	0.3171973	0.2	-16.7	20	
N-Nitrosodimethylamine	A	30.0	21.6	0.8236448	0.5917794		-28.2	20	*
N-nitroso-di-n-propylamine	A	30.0	25.7	1.195253	1.025073	0.5	-14.2	20	
N-Nitrosodiphenylamine	A	30.0	31.0	0.1989297	0.2055202	0.01	3.3	20	
Pentachlorophenol	A	30.0	31.6	8.893906E-02	9.376165E-02	0.05	5.4	20	
Phenanthrene	A	30.0	29.5	1.091927	1.075083	0.7	-1.5	20	
Phenol	A	30.0	27.1	1.932752	1.746679	0.8	-9.6	20	
Pyrene	A	30.0	31.0	1.497822	1.549336	0.6	3.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP2 (0-2.5) (23K0672-01)			Lab File ID: QQQ32314.d		Analyzed: 11/17/23 22:01			
M3PFBS	2.16	56.7	25 - 150	5.13185	5.154708	-0.0229	+/-1.00	
M5PFHxA	2.32	99.0	25 - 150	5.954533	5.896742	0.0578	+/-1.00	
M4PFHpA	2.32	149	25 - 150	6.779183	6.612394	0.1668	+/-1.00	
M3PFHxS	2.20	141	25 - 150	6.889783	6.69831	0.1915	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.32	112	25 - 150	7.473834	7.228673	0.2452	+/-1.00	
M6PFDA	1.16	148	25 - 150	8.624267	8.325208	0.2991	+/-1.00	
M7PFUdA	1.16	128	25 - 150	9.08765	8.807389	0.2803	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.16	124	25 - 150	9.484867	9.254519	0.2303	+/-1.00	
M2PFTeDA	1.16	105	10 - 150	10.14727	10.01288	0.1344	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.28	4.27	25 - 150	1.14055	1.219727	-0.0792	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.22	132	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.63	9.18	25 - 150	4.329566	4.446487	-0.1169	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.32	72.4	10 - 150	9.06405	8.806458	0.2576	+/-1.00	
d3-N-MeFOSAA	4.63	90.6	25 - 150	8.82605	8.533981	0.2921	+/-1.00	
d5-N-EtFOSAA	4.63	96.4	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	4.40	90.7	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	4.45	109	25 - 200	8.5864	8.28256	0.3038	+/-1.00	
M9PFNA	1.16	129	25 - 150	8.087033	7.796514	0.2905	+/-1.00	
M2-4:2 FTS	4.35	54.8	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	2.32	51.6	25 - 150	9.895933	9.706333	0.1896	+/-1.00	
d-N-EtFOSA	2.32	44.9	25 - 150	10.16222	10.01312	0.1491	+/-1.00	
M3HFPO-DA	9.28	101	25 - 150	6.2536	6.155542	0.0981	+/-1.00	
d9-N-EtFOSE	23.2	62.5	25 - 150	10.13147	9.96349	0.1680	+/-1.00	
d7-N-MeFOSE	23.2	65.8	25 - 150	9.873816	9.668704	0.2051	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP2 (15-17.5) (23K0672-02)			Lab File ID: QQQ32315.d		Analyzed: 11/17/23 22:17			
M3PFBS	2.91	105	25 - 150	5.141067	5.154708	-0.0136	+/-1.00	
M5PFHxA	3.13	128	25 - 150	5.963767	5.896742	0.0670	+/-1.00	
M4PFHpA	3.13	134	25 - 150	6.7982	6.612394	0.1858	+/-1.00	
M3PFHxS	2.96	155	25 - 150	6.899034	6.69831	0.2007	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.13	121	25 - 150	7.492383	7.228673	0.2637	+/-1.00	
M6PFDA	1.56	148	25 - 150	8.633533	8.325208	0.3083	+/-1.00	
M7PFUdA	1.56	138	25 - 150	9.096867	8.807389	0.2895	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.56	108	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	1.56	113	10 - 150	10.15658	10.01288	0.1437	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.5	3.11	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.99	141	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.24	33.4	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.13	88.7	10 - 150	9.082583	8.806458	0.2761	+/-1.00	
d3-N-MeFOSAA	6.24	102	25 - 150	8.835333	8.533981	0.3014	+/-1.00	
d5-N-EtFOSAA	6.24	105	25 - 150	9.068117	8.785462	0.2827	+/-1.00	
M2-6:2 FTS	5.94	133	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	6.00	170	25 - 200	8.595667	8.28256	0.3131	+/-1.00	
M9PFNA	1.56	140	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	5.86	59.1	25 - 150	5.88805	5.828181	0.0599	+/-1.00	
d-N-MeFOSA	3.13	62.9	25 - 150	9.923616	9.706333	0.2173	+/-1.00	
d-N-EtFOSA	3.13	57.9	25 - 150	10.18065	10.01312	0.1675	+/-1.00	
M3HFPO-DA	12.5	139	25 - 150	6.262866	6.155542	0.1073	+/-1.00	
d9-N-EtFOSE	31.3	65.1	25 - 150	10.1407	9.96349	0.1772	+/-1.00	
d7-N-MeFOSE	31.3	73.8	25 - 150	9.892266	9.668704	0.2236	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP2 (18-20) (23K0672-03)			Lab File ID: QQQ32318.d		Analyzed: 11/17/23 23:06			
M3PFBS	3.18	101	25 - 150	5.159517	5.154708	0.0048	+/-1.00	
M5PFHxA	3.42	114	25 - 150	5.98225	5.896742	0.0855	+/-1.00	
M4PFHpA	3.42	128	25 - 150	6.7982	6.612394	0.1858	+/-1.00	
M3PFHxS	3.24	137	25 - 150	6.899034	6.69831	0.2007	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.42	109	25 - 150	7.492383	7.228673	0.2637	+/-1.00	
M6PFDA	1.71	133	25 - 150	8.633533	8.325208	0.3083	+/-1.00	
M7PFUdA	1.71	113	25 - 150	9.08765	8.807389	0.2803	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.71	95.3	25 - 150	9.494117	9.254519	0.2396	+/-1.00	
M2PFTeDA	1.71	85.2	10 - 150	10.14727	10.01288	0.1344	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	13.7	3.37	25 - 150	1.168083	1.219727	-0.0516	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.27	111	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.84	56.8	25 - 150	4.366333	4.446487	-0.0802	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.42	74.9	10 - 150	9.073317	8.806458	0.2669	+/-1.00	
d3-N-MeFOSAA	6.84	80.1	25 - 150	8.835333	8.533981	0.3014	+/-1.00	
d5-N-EtFOSAA	6.84	84.6	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	6.50	130	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	6.56	130	25 - 200	8.595667	8.28256	0.3131	+/-1.00	
M9PFNA	1.71	108	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	6.42	49.7	25 - 150	5.90715	5.828181	0.0790	+/-1.00	
d-N-MeFOSA	3.42	50.3	25 - 150	9.905167	9.706333	0.1988	+/-1.00	
d-N-EtFOSA	3.42	53.6	25 - 150	10.16222	10.01312	0.1491	+/-1.00	
M3HFPO-DA	13.7	130	25 - 150	6.272117	6.155542	0.1166	+/-1.00	
d9-N-EtFOSE	34.2	54.1	25 - 150	10.12225	9.96349	0.1588	+/-1.00	
d7-N-MeFOSE	34.2	56.8	25 - 150	9.873816	9.668704	0.2051	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Sequence: S3K1748
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP2 (27.5-30) (23K0672-04)			Lab File ID: QQQ32319.d		Analyzed: 11/17/23 23:22			
M3PFBS	2.33	74.5	25 - 150	5.141067	5.154708	-0.0136	+/-1.00	
M5PFHxA	2.51	103	25 - 150	5.973	5.896742	0.0763	+/-1.00	
M4PFHpA	2.51	144	25 - 150	6.788417	6.612394	0.1760	+/-1.00	
M3PFHxS	2.37	161	25 - 150	6.889783	6.69831	0.1915	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.51	121	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	1.25	133	25 - 150	8.633533	8.325208	0.3083	+/-1.00	
M7PFUdA	1.25	131	25 - 150	9.08765	8.807389	0.2803	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.25	122	25 - 150	9.494117	9.254519	0.2396	+/-1.00	
M2PFTeDA	1.25	83.7	10 - 150	10.14727	10.01288	0.1344	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.0	1.46	25 - 150	1.14055	1.219727	-0.0792	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.40	97.0	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.01	4.80	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.51	83.4	10 - 150	9.073317	8.806458	0.2669	+/-1.00	
d3-N-MeFOSAA	5.01	76.7	25 - 150	8.82605	8.533981	0.2921	+/-1.00	
d5-N-EtFOSAA	5.01	75.6	25 - 150	9.068117	8.785462	0.2827	+/-1.00	
M2-6:2 FTS	4.76	77.1	25 - 200	7.41745	7.170869	0.2466	+/-1.00	
M2-8:2 FTS	4.81	79.4	25 - 200	8.595667	8.28256	0.3131	+/-1.00	
M9PFNA	1.25	123	25 - 150	8.096316	7.796514	0.2998	+/-1.00	
M2-4:2 FTS	4.70	61.2	25 - 150	5.8973	5.828181	0.0691	+/-1.00	
d-N-MeFOSA	2.51	58.2	25 - 150	9.905167	9.706333	0.1988	+/-1.00	
d-N-EtFOSA	2.51	59.8	25 - 150	10.17143	10.01312	0.1583	+/-1.00	
M3HFPO-DA	10.0	105	25 - 150	6.262866	6.155542	0.1073	+/-1.00	
d9-N-EtFOSE	25.1	49.8	25 - 150	10.13147	9.96349	0.1680	+/-1.00	
d7-N-MeFOSE	25.1	53.9	25 - 150	9.873816	9.668704	0.2051	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30912	Laboratory ID:	BK30912-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	7.46	7.14	95.8	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.1	15.8	104	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.8	14.2	96.2	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.0	16.8	112	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	78.9	46.1	58.4	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	78.9	46.3	58.7	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	7.11	45.0 *	50 - 150
9CL-PF3ONS	7.38	6.53	88.5	50 - 150
ADONA	7.46	9.77	131	50 - 150
HFPO-DA (Gen-X)	7.89	7.45	94.4	50 - 150
N-EtFOSA	3.94	1.55	39.3 *	50 - 150
N-EtFOSAA	3.94	4.07	103	50 - 150
N-EtFOSE	39.4	32.6	82.7	50 - 150
N-MeFOSA	3.94	3.46	87.8	50 - 150
N-MeFOSAA	3.94	3.94	99.9	50 - 150
N-MeFOSE	39.4	33.3	84.5	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.02	3.79	54.0	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	3.81	4.59	120	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.77	3.85	102	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	3.79	5.06	134	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	3.94	4.88	124	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	3.71	4.01	108	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	7.89	6.11	77.4	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	7.89	1.22	15.5 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	7.89	10.8	137	50 - 150
Perfluorobutanesulfonic acid (PFBS)	3.49	3.84	110	50 - 150
Perfluorodecanoic acid (PFDA)	3.94	3.47	87.9	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.83	3.64	95.1	50 - 150
Perfluorododecanoic acid (PFDoA)	3.94	4.17	106	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK30912	Laboratory ID:	BK30912-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	1.49	1.25	84.1	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.02	3.38	112	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.95	2.74	93.0	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	2.99	3.32	111	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	15.7	6.65	42.3 *	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	15.7	9.22	58.6	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	3.14	1.70	54.0	50 - 150
9CL-PF3ONS	1.47	1.22	83.2	50 - 150
ADONA	1.49	2.01	136	50 - 150
HFPO-DA (Gen-X)	1.57	1.58	101	50 - 150
N-EtFOSA	0.786	0.275	35.0 *	50 - 150
N-EtFOSAA	0.786	0.774	98.5	50 - 150
N-EtFOSE	7.86	6.81	86.7	50 - 150
N-MeFOSA	0.786	0.650	82.7	50 - 150
N-MeFOSAA	0.786	0.812	103	50 - 150
N-MeFOSE	7.86	7.16	91.2	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.40	0.749	53.6	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	0.758	0.973	128	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.750	0.932	124	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	0.754	0.780	103	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	0.786	0.954	121	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	0.739	0.756	102	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.57	0.916	58.3	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	1.57	0.447	28.4 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	1.57	1.84	117	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.695	0.795	114	50 - 150
Perfluorodecanoic acid (PFDA)	0.786	0.746	94.9	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.762	0.728	95.5	50 - 150
Perfluorododecanoic acid (PFDoA)	0.786	0.939	119	50 - 150

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Calibration: SJ30009
Instrument: LCQQQ
Calibration Date: 10/02/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
11CL-PF3OUdS	0.7105157	5.72859	9.081596	1.12874		0.9999776	0.995	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.1767107	39.01332	8.281806	1.276528		0.9900164	0.995	*
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.8242061	35.589	5.82754	0.3595247		0.993617	0.995	*
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.9425926	37.0172	7.170204	1.058431		0.9893765	0.995	*
3-Perfluoroheptyl propanoic acid (FHpPA)	0.1232525	18.86516	7.922573	1.290296		0.9997601	0.995	
3-Perfluoropentyl propanoic acid (FPePA)	0.1140748	23.52091	6.666288	0.6714893		0.9999763	0.995	
3-Perfluoropropyl propanoic acid (FPrPA)	1.634509E-02	18.00515	4.160234	1.484028		0.9999391	0.995	
9CL-PF3ONS	0.9740683	8.298783	8.14971	1.314775		0.9997536	0.995	
ADONA	0.4656269	3.342766	6.734537	0.7768405		0.9999391	0.995	
d3-N-MeFOSAA	1.894852	5.832011	8.533981	1.308346			20	
d5-N-EtFOSAA	1.482855	8.987748	8.785462	1.260937			20	
d7-N-MeFOSE	0.1096943	9.538321	9.668704	0.7211339			20	
d9-N-EtFOSE	5.742301E-02	7.356046	9.96349	0.5804035			20	
d-N-EtFOSA	0.1903151	10.33302	10.01312	0.575893			20	
d-N-MeFOSA	0.2894869	9.022579	9.706333	0.7114855			20	
HFPO-DA (Gen-X)	2.388122E-02	6.411962	6.156967	0.3209652		0.9996481	0.995	
M2-4:2 FTS	6.326992	31.98058	5.828181	0.3384551			20	*
M2-6:2 FTS	4.309265	36.08813	7.170869	1.065069			20	*
M2-8:2 FTS	6.068952	33.54427	8.28256	1.286257			20	*
M2PFTeDA	1.156149	7.866873	10.01288	0.5529907			20	
M3HFPO-DA	0.2387003	12.51329	6.155542	0.3513022			20	
M3PFBS	5.185494	6.486697	5.154708	0.9019837			20	
M3PFHxS	2.736241	5.94879	6.69831	0.8015715			20	
M4PFHpA	0.2080857	7.159001	6.612394	0.6834055			20	
M5PFHxA	1.507927	3.404123	5.896742	0.3016276			20	
M6PFDA	1.287883	10.7937	8.325208	1.310789			20	
M7PFUdA	2.052925	15.49362	8.807389	1.274563			20	
M9PFNA	0.2662851	5.998683	7.796514	1.281032			20	
N-EtFOSA	1.327838	11.78257	10.02456	0.583553		0.9987898	0.995	
N-EtFOSAA	0.9484482	3.422898	8.795117	1.254374		0.9998723	0.995	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32303.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV3	Injection Time:	18:46

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.5	0.7105157	0.8175593		21.4	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.3	0.1767107	0.2331676		18.0	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	10.3	0.8242061	1.038938		10.1	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.9	0.9425926	1.332383		25.2	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	56.5	0.1232525	0.1118607		-9.8	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	64.8	0.1140748	0.1172528		3.6	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	15.8	1.634509E-02	1.916002E-02		26.6	30	
9CL-PF3ONS	A	9.35	11.7	0.9740683	1.068784		24.8	30	
ADONA	A	9.45	10.7	0.4656269	0.5073672		13.5	30	
HFPO-DA (Gen-X)	A	10.0	11.8	2.388122E-02	2.615096E-02		17.6	30	
N-EtFOSA	A	2.50	17.1	1.327838	8.79484		583	30	*
N-EtFOSAA	A	2.50	2.69	0.9484482	0.9859023		7.5	30	
N-EtFOSE	A	25.0	23.9	2.103058	2.059501		-4.4	30	
N-MeFOSA	A	2.50	2.29	0.9774397	0.9326041		-8.5	30	
N-MeFOSAA	A	2.50	2.70	0.8340644	0.8639138		7.9	30	
N-MeFOSE	A	25.0	23.3	1.016894	1.014652		-6.9	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	8.53	1.083962	2.140415		91.7	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.82	0.8640874	0.9542207		17.1	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.59	2.706255	2.887102		8.8	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.45	2.040776	2.609141		43.6	30	*
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.89	1.543242	1.727479		15.8	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.29	1.56851	1.414837		-2.8	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	12.1	1.750606E-02	4.661251E-02		143	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32303.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV3	Injection Time:	18:46

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	12.5	0.2760092	0.6949947		150	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.6	0.436862	0.9408099		111	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.33	0.9969591	1.046677		5.0	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.45	1.019014	1.064886		-1.9	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	3.03	0.5852952	0.7376724		25.3	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.63	0.8320389	0.8423882		5.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.20	4.129863	3.840915		-12.1	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.31	1.223553	1.1191		1.2	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.27	1.086996	1.009182		-9.3	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.92	0.8644747	0.8670323		-0.8	30
Perfluorononanoic acid (PFNA)	A	2.50	2.38	3.375915	3.17543		-4.8	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.49	2.158758	2.164858		7.2	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.93	1.023846	1.151734		17.0	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.93	1.028127	1.017121		-1.5	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.71	1.00277	1.048627		8.5	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.62	1.122388	1.171737		5.0	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.44	0.8100826	0.7796897		-2.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32316.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV4	Injection Time:	22:33

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	11.3	0.7105157	0.8082367		20.0	30
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	9.73	0.1767107	0.2028065		1.4	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.90	0.8242061	0.9993767		5.6	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.5	0.9425926	1.289649		20.8	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	61.5	0.1232525	0.1217691		-1.7	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	71.4	0.1140748	0.1290241		14.1	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	16.1	1.634509E-02	0.0194502		28.5	30
9CL-PF3ONS	A	9.35	12.5	0.9740683	1.142205		33.3	30 *
ADONA	A	9.45	11.6	0.4656269	0.5465399		22.2	30
HFPO-DA (Gen-X)	A	10.0	12.5	2.388122E-02	2.785765E-02		25.3	30
N-EtFOSA	A	2.50	20.8	1.327838	10.81905		732	30 *
N-EtFOSAA	A	2.50	2.86	0.9484482	1.049753		14.4	30
N-EtFOSE	A	25.0	24.9	2.103058	2.141986		-0.6	30
N-MeFOSA	A	2.50	2.20	0.9774397	0.8977307		-11.9	30
N-MeFOSAA	A	2.50	2.61	0.8340644	0.8344869		4.2	30
N-MeFOSE	A	25.0	22.3	1.016894	0.9739839		-10.6	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.05	1.083962	2.268087		103	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.54	0.8640874	0.8590265		5.4	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.38	2.706255	2.654428		-0.008	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.78	2.040776	2.104421		15.8	30
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.87	1.543242	1.710247		14.6	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.21	1.56851	1.37098		-5.8	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.03	1.750606E-02	3.116116E-02		60.6	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32316.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/17/23
Lab Sample ID:	S3K1748-CCV4	Injection Time:	22:33

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	12.1	0.2760092	0.6735397		142	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.4	0.436862	0.9264849		108	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.31	0.9969591	1.035688		3.9	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.41	1.019014	1.047434		-3.6	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.23	0.5852952	0.5441656		-7.7	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.53	0.8320389	0.8119939		1.3	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.00	4.129863	3.487824		-20.1	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.52	1.223553	1.22425		10.6	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.41	1.086996	1.070616		-3.8	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.89	0.8644747	0.8640649		-1.1	30
Perfluorononanoic acid (PFNA)	A	2.50	2.45	3.375915	3.271605		-1.9	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.25	2.158758	1.957083		-3.1	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.56	1.023846	1.006992		2.4	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.97	1.028127	1.026407		-0.6	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.57	1.00277	0.9945692		3.0	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.64	1.122388	1.176407		5.4	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.79	0.8100826	0.8932292		11.7	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32328.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/18/23
Lab Sample ID:	S3K1748-CCV5	Injection Time:	01:47

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	10.5	0.7105157	0.7469019		11.0	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.8	0.1767107	0.2223247		12.0	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.82	0.8242061	0.9911652		4.6	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.2	0.9425926	1.263789		18.2	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	60.6	0.1232525	0.1200143		-3.2	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	65.2	0.1140748	0.117822		4.1	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	16.2	1.634509E-02	1.966767E-02		29.9	30	
9CL-PF3ONS	A	9.35	11.6	0.9740683	1.061837		24.0	30	
ADONA	A	9.45	10.3	0.4656269	0.4880136		9.2	30	
HFPO-DA (Gen-X)	A	10.0	10.7	2.388122E-02	2.373404E-02		6.8	30	
N-EtFOSA	A	2.50	21.4	1.327838	11.14467		755	30	*
N-EtFOSAA	A	2.50	2.50	0.9484482	0.9173953		0.02	30	
N-EtFOSE	A	25.0	23.8	2.103058	2.05153		-4.8	30	
N-MeFOSA	A	2.50	2.13	0.9774397	0.8667236		-15.0	30	
N-MeFOSAA	A	2.50	2.67	0.8340644	0.8562136		6.9	30	
N-MeFOSE	A	25.0	20.1	1.016894	0.8785174		-19.4	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	8.90	1.083962	2.232473		100	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.74	0.8640874	0.92758		13.8	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.52	2.706255	2.805568		5.7	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.03	2.040776	2.291938		26.1	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.94	1.543242	1.756927		17.8	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.36	1.56851	1.460257		0.3	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	10.6	1.750606E-02	4.092134E-02		112	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0672
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32328.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1748	Injection Date:	11/18/23
Lab Sample ID:	S3K1748-CCV5	Injection Time:	01:47

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	12.2	0.2760092	0.6762037		143	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.5	0.436862	0.9322205		109	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.22	0.9969591	0.9960872		-0.07	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.13	1.019014	0.9268208		-14.7	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.83	0.5852952	0.6890127		17.0	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.68	0.8320389	0.8603954		7.3	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.05	4.129863	3.576208		-18.1	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.40	1.223553	1.165562		5.4	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.39	1.086996	1.062256		-4.5	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.86	0.8644747	0.8610214		-1.4	30
Perfluorononanoic acid (PFNA)	A	2.50	2.52	3.375915	3.359363		0.7	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.43	2.158758	2.113347		4.7	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.72	1.023846	1.069018		8.7	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.90	1.028127	1.011052		-2.1	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.64	1.00277	1.022044		5.8	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.81	1.122388	1.252127		12.2	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.48	0.8100826	0.7928267		-0.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

23SP2 (0-2.5)

Laboratory: York Analytical Laboratories, Inc. - St
SDG: 23K0672
Client: Touchstone Environmental Geology, F
Project: 100 East 149th St. Bronx, NY
Matrix: Soil
Laboratory ID: 23K0672-01
File ID: P600426345.D
Sampled: 11/07/23 13:15
Prepared: 11/16/23 08:27
Analyzed: 11/17/23 06:40
Solids: 89.76
Preparation: EPA 3550C
Initial/Final: 30.3 g / 10 mL
Batch: BK31062
Sequence: S3K1651
Calibration: SJ30007
Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	1.82	1.82		U
72-55-9	4,4'-DDE	5	1.82	1.82		U
50-29-3	4,4'-DDT	5	1.82	1.82		U
309-00-2	Aldrin	5	1.82	1.82		U
319-84-6	alpha-BHC	5	1.82	1.82		U
5103-71-9	alpha-Chlordane	5	2.45	3.39	32.19	D
319-85-7	beta-BHC	5	1.82	1.82		U
57-74-9	Chlordane, total	5	36.4	36.4		U
319-86-8	delta-BHC	5	1.82	1.82		U
60-57-1	Dieldrin	5	1.82	1.82		U
959-98-8	Endosulfan I	5	1.82	1.82		U
33213-65-9	Endosulfan II	5	1.82	1.82		U
1031-07-8	Endosulfan sulfate	5	1.82	1.82		U
72-20-8	Endrin	5	1.82	1.82		U
7421-93-4	Endrin aldehyde	5	1.82	1.82		U
53494-70-5	Endrin ketone	5	1.82	1.82		U
58-89-9	gamma-BHC (Lindane)	5	1.82	1.82		U
5566-34-7	gamma-Chlordane	5	2.80	1.96	35.29	D
76-44-8	Heptachlor	5	1.82	1.82		U
1024-57-3	Heptachlor epoxide	5	1.82	1.82		U
72-43-5	Methoxychlor	5	9.10	9.10		U
8001-35-2	Toxaphene	5	92.1	92.1		U
2385-85-5	Mirex	5	1.82	1.82		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	73.5	50.8	69.1	30 - 150	
Tetrachloro-m-xylene	73.5	43.5	59.2	30 - 150	

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Matrix: Soil
Batch: BK30823
Laboratory ID: BK30823-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.		QC LIMITS REC.
Aluminum	9490	7540	79.4		45.4 - 128.6
Antimony	248	51.3	20.7		3 - 103.2
Arsenic	163	122	75.0		68.7 - 100.6
Barium	319	285	89.3		82.5 - 115.7
Beryllium	119	95.2	80.0		77.7 - 109.2
Cadmium	130	103	79.2		75.2 - 106.2
Calcium	5000	4260	85.2		80.6 - 114.4
Chromium	153	130	84.6		77.8 - 111.8
Cobalt	153	131	85.5		79.1 - 109.8
Copper	245	223	90.9		80.4 - 111
Iron	7540	6760	89.6		69.8 - 144.6
Lead	220	184	83.4		80 - 113.6
Magnesium	1980	1850	93.5		85.9 - 129.3
Manganese	431	365	84.6		79.6 - 114.2
Nickel	175	149	84.9		76.6 - 108.6
Potassium	1570	1440	91.8		80.9 - 131.2
Selenium	156	139	89.4		80.8 - 118.6
Silver	82.9	43.7	52.7	*	76.7 - 114.7
Sodium	453	949	209	*	72.2 - 119.7
Thallium	99.4	75.3	75.7	*	75.8 - 110.7
Vanadium	170	137	80.5		75.3 - 114.1
Zinc	201	318	158	*	79.6 - 115.92

* Values outside of QC limits

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0672

Client: Touchstone Environmental Geology, PC

Instrument ID: AvioICP

Project: 100 East 149th St. Bronx, NY

Sequence: S3K1714

Calibration: 11/17/23 0

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3K1714-CCB1	Lead	-0.0006	0.005	ug/mL		EPA 6010D
	Magnesium	0.002	0.050	ug/mL		EPA 6010D
	Manganese	-0.00008	0.005	ug/mL		EPA 6010D
	Nickel	0.0009	0.010	ug/mL		EPA 6010D
	Potassium	-0.005	0.050	ug/mL		EPA 6010D
	Selenium	-0.003	0.025	ug/mL		EPA 6010D
	Silver	0.0003	0.005	ug/mL		EPA 6010D
	Sodium	-0.001	0.500	ug/mL		EPA 6010D
	Thallium	-0.001	0.025	ug/mL		EPA 6010D
	Vanadium	0.0006	0.010	ug/mL		EPA 6010D
	Zinc	-0.00006	0.025	ug/mL		EPA 6010D
BK30823-BLK1	Aluminum	0.278	4.17	mg/kg wet		EPA 6010D
	Antimony	0.042	2.08	mg/kg wet		EPA 6010D
	Arsenic	0.200	1.25	mg/kg wet		EPA 6010D
	Barium	-0.007	2.08	mg/kg wet		EPA 6010D
	Beryllium	0.020	0.042	mg/kg wet		EPA 6010D
	Cadmium	0.005	0.250	mg/kg wet		EPA 6010D
	Calcium	10.8	4.17	mg/kg wet	*	EPA 6010D
	Chromium	0.050	0.417	mg/kg wet		EPA 6010D
	Cobalt	-0.031	0.333	mg/kg wet		EPA 6010D
	Copper	0.002	1.67	mg/kg wet		EPA 6010D
	Iron	0.136	20.8	mg/kg wet		EPA 6010D
	Lead	-0.012	0.417	mg/kg wet		EPA 6010D
	Magnesium	-0.229	4.17	mg/kg wet		EPA 6010D
	Manganese	0.001	0.417	mg/kg wet		EPA 6010D
	Nickel	0.099	0.830	mg/kg wet		EPA 6010D
	Potassium	0.681	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.392	2.08	mg/kg wet		EPA 6010D
	Silver	-0.106	0.420	mg/kg wet		EPA 6010D
	Sodium	9.41	41.7	mg/kg wet		EPA 6010D
	Thallium	0.071	2.08	mg/kg wet		EPA 6010D
	Vanadium	0.014	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.031	2.08	mg/kg wet		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/16/23
Control Limt: +/- 10.00%
Sequence: S3K1702

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1702-ICV1	Aluminum	10.0	9.83	98.3	ug/mL	EPA 6010D
	Antimony	0.250	0.252	101	ug/mL	EPA 6010D
	Arsenic	0.250	0.250	100	ug/mL	EPA 6010D
	Barium	10.0	10.1	101	ug/mL	EPA 6010D
	Beryllium	0.250	0.248	99.0	ug/mL	EPA 6010D
	Cadmium	0.125	0.131	105	ug/mL	EPA 6010D
	Calcium	25.0	24.8	99.1	ug/mL	EPA 6010D
	Chromium	1.00	0.988	98.8	ug/mL	EPA 6010D
	Cobalt	2.50	2.52	101	ug/mL	EPA 6010D
	Copper	1.25	1.24	99.3	ug/mL	EPA 6010D
	Iron	5.00	4.95	99.0	ug/mL	EPA 6010D
	Lead	0.250	0.262	105	ug/mL	EPA 6010D
	Magnesium	25.0	24.5	98.0	ug/mL	EPA 6010D
	Manganese	2.50	2.51	100	ug/mL	EPA 6010D
	Nickel	2.50	2.52	101	ug/mL	EPA 6010D
	Potassium	25.0	24.5	97.9	ug/mL	EPA 6010D
	Selenium	0.250	0.261	104	ug/mL	EPA 6010D
	Silver	1.25	1.23	98.5	ug/mL	EPA 6010D
	Sodium	25.0	24.6	98.4	ug/mL	EPA 6010D
	Thallium	0.250	0.283	113 *	ug/mL	EPA 6010D
	Vanadium	2.50	2.46	98.5	ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.7	ug/mL	EPA 6010D
S3K1702-CCV1	Aluminum	10.0	10.0	100	ug/mL	EPA 6010D
	Antimony	0.250	0.222	88.8 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.500	100	ug/mL	EPA 6010D
	Barium	10.0	10.2	102	ug/mL	EPA 6010D
	Beryllium	0.250	0.254	101	ug/mL	EPA 6010D
	Cadmium	0.250	0.254	102	ug/mL	EPA 6010D
	Calcium	25.0	25.1	100	ug/mL	EPA 6010D
	Chromium	1.00	1.01	101	ug/mL	EPA 6010D
	Cobalt	2.50	2.56	102	ug/mL	EPA 6010D
	Copper	1.25	1.28	102	ug/mL	EPA 6010D
	Iron	5.00	5.08	102	ug/mL	EPA 6010D
	Lead	0.500	0.508	102	ug/mL	EPA 6010D
	Magnesium	25.0	25.2	101	ug/mL	EPA 6010D
	Manganese	2.50	2.54	102	ug/mL	EPA 6010D
	Nickel	2.50	2.58	103	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/16/23
Control Limt: +/- 10.00%
Sequence: S3K1702

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1702-CCV1	Potassium	5.00	5.06	101	ug/mL	EPA 6010D
	Selenium	0.500	0.508	102	ug/mL	EPA 6010D
	Silver	1.25	1.27	102	ug/mL	EPA 6010D
	Sodium	25.0	24.8	99.3	ug/mL	EPA 6010D
	Thallium	0.500	0.510	102	ug/mL	EPA 6010D
	Vanadium	2.50	2.48	99.3	ug/mL	EPA 6010D
	Zinc	2.50	2.49	99.7	ug/mL	EPA 6010D
S3K1702-CCV6	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.215	86.1 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.509	102	ug/mL	EPA 6010D
	Barium	10.0	10.4	104	ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.261	105	ug/mL	EPA 6010D
	Calcium	25.0	25.7	103	ug/mL	EPA 6010D
	Chromium	1.00	1.03	103	ug/mL	EPA 6010D
	Cobalt	2.50	2.63	105	ug/mL	EPA 6010D
	Copper	1.25	1.31	104	ug/mL	EPA 6010D
	Iron	5.00	5.22	104	ug/mL	EPA 6010D
	Lead	0.500	0.518	104	ug/mL	EPA 6010D
	Magnesium	25.0	25.7	103	ug/mL	EPA 6010D
	Manganese	2.50	2.60	104	ug/mL	EPA 6010D
	Nickel	2.50	2.65	106	ug/mL	EPA 6010D
	Potassium	5.00	5.24	105	ug/mL	EPA 6010D
	Selenium	0.500	0.516	103	ug/mL	EPA 6010D
	Silver	1.25	1.30	104	ug/mL	EPA 6010D
	Sodium	25.0	24.5	97.9	ug/mL	EPA 6010D
	Thallium	0.500	0.515	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.53	101	ug/mL	EPA 6010D
	Zinc	2.50	2.54	102	ug/mL	EPA 6010D
S3K1702-CCV7	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.217	86.9 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.506	101	ug/mL	EPA 6010D
	Barium	10.0	10.4	104	ug/mL	EPA 6010D
	Beryllium	0.250	0.259	103	ug/mL	EPA 6010D
	Cadmium	0.250	0.260	104	ug/mL	EPA 6010D
	Calcium	25.0	25.7	103	ug/mL	EPA 6010D
	Chromium	1.00	1.02	102	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/16/23
Control Limt: +/- 10.00%
Sequence: S3K1702

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K1702-CCV7	Cobalt	2.50	2.61	104	ug/mL	EPA 6010D
	Copper	1.25	1.30	104	ug/mL	EPA 6010D
	Iron	5.00	5.21	104	ug/mL	EPA 6010D
	Lead	0.500	0.516	103	ug/mL	EPA 6010D
	Magnesium	25.0	25.8	103	ug/mL	EPA 6010D
	Manganese	2.50	2.60	104	ug/mL	EPA 6010D
	Nickel	2.50	2.64	106	ug/mL	EPA 6010D
	Potassium	5.00	5.13	103	ug/mL	EPA 6010D
	Selenium	0.500	0.522	104	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Sodium	25.0	25.3	101	ug/mL	EPA 6010D
	Thallium	0.500	0.516	103	ug/mL	EPA 6010D
	Vanadium	2.50	2.52	101	ug/mL	EPA 6010D
	Zinc	2.50	2.51	100	ug/mL	EPA 6010D
S3K1702-CCV8	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.5 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.500	100	ug/mL	EPA 6010D
	Barium	10.0	10.5	105	ug/mL	EPA 6010D
	Beryllium	0.250	0.260	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.259	104	ug/mL	EPA 6010D
	Calcium	25.0	25.7	103	ug/mL	EPA 6010D
	Chromium	1.00	1.03	103	ug/mL	EPA 6010D
	Cobalt	2.50	2.61	104	ug/mL	EPA 6010D
	Copper	1.25	1.31	105	ug/mL	EPA 6010D
	Iron	5.00	5.26	105	ug/mL	EPA 6010D
	Lead	0.500	0.512	102	ug/mL	EPA 6010D
	Magnesium	25.0	25.9	104	ug/mL	EPA 6010D
	Manganese	2.50	2.61	104	ug/mL	EPA 6010D
	Nickel	2.50	2.64	106	ug/mL	EPA 6010D
	Potassium	5.00	5.17	103	ug/mL	EPA 6010D
	Selenium	0.500	0.513	103	ug/mL	EPA 6010D
	Silver	1.25	1.29	103	ug/mL	EPA 6010D
	Sodium	25.0	25.2	101	ug/mL	EPA 6010D
	Thallium	0.500	0.509	102	ug/mL	EPA 6010D
	Vanadium	2.50	2.53	101	ug/mL	EPA 6010D
	Zinc	2.50	2.51	100	ug/mL	EPA 6010D
S3K1702-CCV9	Aluminum	10.0	10.4	104	ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0672
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/16/23
Control Limt: +/- 10.00%
Sequence: S3K1702

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K1702-CCV9	Antimony	0.250	0.214	85.6	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.509	102		ug/mL	EPA 6010D
	Barium	10.0	10.5	105		ug/mL	EPA 6010D
	Beryllium	0.250	0.261	104		ug/mL	EPA 6010D
	Cadmium	0.250	0.263	105		ug/mL	EPA 6010D
	Calcium	25.0	25.8	103		ug/mL	EPA 6010D
	Chromium	1.00	1.04	104		ug/mL	EPA 6010D
	Cobalt	2.50	2.64	106		ug/mL	EPA 6010D
	Copper	1.25	1.31	105		ug/mL	EPA 6010D
	Iron	5.00	5.21	104		ug/mL	EPA 6010D
	Lead	0.500	0.517	103		ug/mL	EPA 6010D
	Magnesium	25.0	25.8	103		ug/mL	EPA 6010D
	Manganese	2.50	2.62	105		ug/mL	EPA 6010D
	Nickel	2.50	2.68	107		ug/mL	EPA 6010D
	Potassium	5.00	5.24	105		ug/mL	EPA 6010D
	Selenium	0.500	0.518	104		ug/mL	EPA 6010D
	Silver	1.25	1.31	105		ug/mL	EPA 6010D
	Sodium	25.0	25.4	102		ug/mL	EPA 6010D
	Thallium	0.500	0.509	102		ug/mL	EPA 6010D
	Vanadium	2.50	2.54	102		ug/mL	EPA 6010D
	Zinc	2.50	2.53	101		ug/mL	EPA 6010D
S3K1702-CCVA	Aluminum	10.0	10.4	104		ug/mL	EPA 6010D
	Antimony	0.250	0.215	85.9	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.504	101		ug/mL	EPA 6010D
	Barium	10.0	10.5	105		ug/mL	EPA 6010D
	Beryllium	0.250	0.261	104		ug/mL	EPA 6010D
	Cadmium	0.250	0.259	104		ug/mL	EPA 6010D
	Calcium	25.0	25.8	103		ug/mL	EPA 6010D
	Chromium	1.00	1.02	102		ug/mL	EPA 6010D
	Cobalt	2.50	2.61	104		ug/mL	EPA 6010D
	Copper	1.25	1.32	105		ug/mL	EPA 6010D
	Iron	5.00	5.21	104		ug/mL	EPA 6010D
	Lead	0.500	0.511	102		ug/mL	EPA 6010D
	Magnesium	25.0	25.9	104		ug/mL	EPA 6010D
	Manganese	2.50	2.61	105		ug/mL	EPA 6010D
	Nickel	2.50	2.64	105		ug/mL	EPA 6010D
	Potassium	5.00	5.22	104		ug/mL	EPA 6010D

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: 23K0753
4 Soil Samples, 1 Trip Blank, and 1 Field Blank

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K0753 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K0753, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/5/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 09, 2023
SAMPLE TYPE:	4 soil samples, 1 trip blank and 1 field blank
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K0753

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 4 soil samples, 1 trip blank, and 1 field blank collected on November 09, 2023. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), 1,4-Dioxane, PFASs, Pesticides, PCBs, Metals, Hexavalnet Chromium (Cr+6), and Total Cyanide (TCN).

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K0753. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Tables 6-1 through 6-9. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K0753, six samples were analyzed and results were reported for 1068 analytes. Eleven results were rejected. Even though some results were flagged with a "J" as estimated, all other results (99.0 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP7 (0-2.5ft) 23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft) Trip Blank 11-09-23	1,4-Dioxane	J detects R non-detects	ICAL RF < 0.005	Since all results are non-detect, the results are rejected
23SP7 (12-14ft) 23SP7 (14-18ft)	All analytes	J detects UJ non-detects	Surr rec for 1,2-DCEd4 < QC limits	Data are estimated
Trip Blank 11-09-23	DBCP 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Bromoform	J detects UJ non-detects	ICAL RF and/or CCV RF < QC limits	Data are estimated
Trip Blank 11-09-23	1,2,3-Trichlorobenzene TBA Tetrachloroethene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated
23SP7 (14-18ft) 23SP7 (27.5-30ft)	DBCP 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone TBA trans-1,4-Dichloro-2-butene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits of CCV RF < QC limits	Data are estimated

23SP7 (0-2.5ft) 23SP7 (12-14ft)	DBCP 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Acetone Bromodichloromethane Chloromethane Dichlorodifluoromethane Methylacetate TBA trans-1,3-Dichloropropene trans-1,4-Dichloro-2-butene Vinyl chloride	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits of CCV RF < QC limits	Data are estimated

Table 6-2 SVOCs - Scan

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP7 (0-2.5ft) 23SP7 (12-14ft)	2,4-Dinitrophenol	J detects R non-detects	CCV % D > 90 %	Since all results are non-detect, the results are rejected
23SP7 (0-2.5ft) 23SP7 (12-14ft)	2,3,4,6-Tetrachlorobenzene 2,4,5-Trichlorophenol 2,4-Dimethylphenol 2-Nitrophenol 3,3'-Dichlorobenzidine 4,6-Dinitro-2-methylphenol Benzidine Benzoic acid	J detects UJ non-detects	ICAL % RSD and/or ICV % D and/or CCV % D > QC limits	Data are estimated

	Dibenzo(a,h)antracene Di-n-octyl phthalate Hexachlorocyclopentadiene Indeno(1,2,3-cd)pyrene Pentachlorophenol			
23SP7 (14-18ft) 23SP7 (27.5-30ft)	2,4-Dinitrophenol 2-Methylphenol 4,6-Dinitro-2-methylphenol Hexachlorocyclopentadiene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-3 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP7 (0-2.5ft)	PFBS	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft) PFAS Field Blank 11-09-23	PFBS PFPeA	J detects UJ non-detects	Sur rec < QC limits	Data are estimated

23SP7 (0-2.5ft) 23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft)	N-MeFOSAA	J detects R non-detects	LCS rec < 0 %	Since all results are non-detect, the results are rejected
23SP7 (0-2.5ft) 23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft) PFAS Field Blank 11-09-23	8:2 FTS 4:2 FTS 6:2 FTS	J detects UJ non-detects	ICAL Qual Cod < 0.995	Data are estimated
23SP7 (0-2.5ft) 23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft) PFAS Field Blank 11-09-23	9CL-PF3ONS PFEESA NFDHA PFMPA PFMBA	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated

Table 6-5 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP7 (0-2.5ft)	4,4'-DDT	J detects	% D for 2nd column > 25 %	Data are estimated
23SP7 (0-2.5ft) 23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft)	4,4'-DDE	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-6 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 ICP Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP7 (0-2.5ft) 23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft)	Sb	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low
23SP7 (0-2.5ft) 23SP7 (12-14ft) 23SP7 (14-18ft) 23SP7 (27.5-30ft)	Na, and Zn	J+ detects	SRM rec > QC limit	Data are biased high

Table 6-8 Mercury

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-9 Cr+6 and TCN

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/18/2023
Client Project ID: 220293 100 East 149th Street Bronx, NY
York Project (SDG) No.: 23K0753

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Work Order Narrative

York Analytical Work Order No.: 23K0753

Client : Touchstone Environmental Geology, PC

Client Project ID : 220293 100 East 149th Street Bronx, NY

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/10/2023 4:38 PM

6 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{2.4}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23SP7 (0-2.5ft)	23K0753-01	Soil	11/09/2023 12:40 PM	11/10/2023 4:38 PM
23SP7 (12-14ft)	23K0753-02	Soil	11/09/2023 12:45 PM	11/10/2023 4:38 PM
23SP7 (14-18ft)	23K0753-03	Soil	11/09/2023 12:51 PM	11/10/2023 4:38 PM
23SP7 (27.5-30ft)	23K0753-04	Soil	11/09/2023 1:05 PM	11/10/2023 4:38 PM
Trip Blank	23K0753-05	Water	11/09/2023 3:00 PM	11/10/2023 4:38 PM
Field Blank PFAS	23K0753-06	Water	11/09/2023 3:00 PM	11/10/2023 4:38 PM

WorkOrder Comments

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5030B	EPA 8260D
VOA	EPA 5035A	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D SIM
PFAS	EPA 1633 Prep	EPA 1633 Draft 3
PEST	EPA 3550C	EPA 8081B
ARO	EPA 3550C	EPA 8082A
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	EPA SW846-3060	EPA 7196A
WET	Analysis Preparation Soil	EPA 9014/9010C
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0753

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 East 149th St Bronx, NY

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
RUSH - Five Day	
Standard (6-9 Day)	X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Gabrielle Castro

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
~~NY ASP B Package~~ | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SB7 (0-2.5ft)	S	11/9/23 1240	TCL+10 VOCs & TICs EPA 8260 C,	8 oz jars	2
23SB7 (12-14 ft)		1245	TCL + 20 SVOCs + TICs, Pest/PCBs	VOAs	4
23SB7 (14-18 ft)		1251	21 PFAS compounds EPA 1633, 1,4 dioxane	PFAS	1
23SB7 (27.5-30ft)		1105	EPA 8270Sim, Full TAL Metals list + Cyanide, Hexavalent Chromium		
Trip Blank	O			VOAs	2
Field Blank - PFAS	O			PFAS containers	1

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	1210 pm 11/10/23	K Barkyork	11/10/23 1210pm	K Barkyork	11/10/23 16:38
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/10/23 16:30 / 2.4 Degrees C

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York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: VOA

METHOD: EPA 8260D

DATA PACKAGE COVER PAGE

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (12-14ft)	23K0753-02RE1
23SP7 (14-18ft)	23K0753-03
23SP7 (14-18ft)	23K0753-03RE1
23SP7 (27.5-30ft)	23K0753-04
Trip Blank	23K0753-05

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/14/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID: V3178205.D

Sampled: 11/09/23 12:40 Prepared: 11/14/23 09:00 Analyzed: 11/15/23 18:28

Solids: 88.78 Preparation: EPA 5035A Initial/Final: 5.74 g / 5 ml

Batch: BK30917 Sequence: S3K1611 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0049	U	
71-55-6	1,1,1-Trichloroethane	1	0.0049	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0049	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0049	U	
79-00-5	1,1,2-Trichloroethane	1	0.0049	U	
75-34-3	1,1-Dichloroethane	1	0.0049	U	
75-35-4	1,1-Dichloroethylene	1	0.0049	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0049	U	
96-18-4	1,2,3-Trichloropropane	1	0.0049	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0049	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0049	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0049	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0049	U	
95-50-1	1,2-Dichlorobenzene	1	0.0049	U	
107-06-2	1,2-Dichloroethane	1	0.0049	U	
78-87-5	1,2-Dichloropropane	1	0.0049	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0049	U	
541-73-1	1,3-Dichlorobenzene	1	0.0049	U	
106-46-7	1,4-Dichlorobenzene	1	0.0049	U	
123-91-1	1,4-Dioxane	1	~~0.098~~	U	R
78-93-3	2-Butanone	1	0.0049	U	UJ
591-78-6	2-Hexanone	1	0.0049	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0049	U	UJ
67-64-1	Acetone	1	0.0098	U	UJ
107-02-8	Acrolein	1	0.0098	U	
107-13-1	Acrylonitrile	1	0.0049	U	
71-43-2	Benzene	1	0.0049	U	
74-97-5	Bromochloromethane	1	0.0049	U	UJ
75-27-4	Bromodichloromethane	1	0.0049	U	
75-25-2	Bromoform	1	0.0049	U	
74-83-9	Bromomethane	1	0.0049	U	
75-15-0	Carbon disulfide	1	0.0049	U	
56-23-5	Carbon tetrachloride	1	0.0049	U	
108-90-7	Chlorobenzene	1	0.0049	U	
75-00-3	Chloroethane	1	0.0049	U	
67-66-3	Chloroform	1	0.0049	U	
74-87-3	Chloromethane	1	0.0049	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.0049	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0049	U	
110-82-7	Cyclohexane	1	0.0049	U	

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID: V3178205.D

Sampled: 11/09/23 12:40 Prepared: 11/14/23 09:00 Analyzed: 11/15/23 18:28

Solids: 88.78 Preparation: EPA 5035A Initial/Final: 5.74 g / 5 ml

Batch: BK30917 Sequence: S3K1611 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0049	U	
74-95-3	Dibromomethane	1	0.0049	U	
75-71-8	Dichlorodifluoromethane	1	0.0049	U	UJ
100-41-4	Ethyl Benzene	1	0.0049	U	
87-68-3	Hexachlorobutadiene	1	0.0049	U	
98-82-8	Isopropylbenzene	1	0.0049	U	
79-20-9	Methyl acetate	1	0.0049	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0049	U	
108-87-2	Methylcyclohexane	1	0.0049	U	
75-09-2	Methylene chloride	1	0.0098	U	
104-51-8	n-Butylbenzene	1	0.0049	U	
103-65-1	n-Propylbenzene	1	0.0049	U	
95-47-6	o-Xylene	1	0.0049	U	
179601-23-1	p- & m- Xylenes	1	0.0098	U	
99-87-6	p-Isopropyltoluene	1	0.0049	U	
135-98-8	sec-Butylbenzene	1	0.0049	U	
100-42-5	Styrene	1	0.0049	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0049	U	UJ
98-06-6	tert-Butylbenzene	1	0.0049	U	
127-18-4	Tetrachloroethylene	1	0.0049	U	
108-88-3	Toluene	1	0.0049	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0049	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0049	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0049	U	UJ
79-01-6	Trichloroethylene	1	0.0049	U	UJ
75-69-4	Trichlorofluoromethane	1	0.0049	U	
75-01-4	Vinyl Chloride	1	0.0049	U	UJ
1330-20-7	Xylenes, Total	1	0.015	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.8	99.6	77 - 125	
SURR: Toluene-d8	50.0	51.0	102	85 - 120	
SURR: p-Bromofluorobenzene	50.0	43.2	86.5	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	128557	5.842	125307	5.845	
ISTD: Chlorobenzene-d5	559910	8.871	557292	8.871	
ISTD: 1,2-Dichlorobenzene-d4	227039	11.862	249463	11.862	

* Values outside of QC limits

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID: V3178206.D

Sampled: 11/09/23 12:45 Prepared: 11/14/23 09:00 Analyzed: 11/15/23 18:54

Solids: 85.25 Preparation: EPA 5035A Initial/Final: 5.02 g / 5 ml

Batch: BK30917 Sequence: S3K1611 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.58	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.58	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.58	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.58	U	
79-00-5	1,1,2-Trichloroethane	100	0.58	U	
75-34-3	1,1-Dichloroethane	100	0.58	U	
75-35-4	1,1-Dichloroethylene	100	0.58	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.58	U	
96-18-4	1,2,3-Trichloropropane	100	0.58	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.58	U	
95-63-6	1,2,4-Trimethylbenzene	100	12	D	
96-12-8	1,2-Dibromo-3-chloropropane	100	0.58	U	
106-93-4	1,2-Dibromoethane	100	0.58	U	
95-50-1	1,2-Dichlorobenzene	100	0.58	U	
107-06-2	1,2-Dichloroethane	100	0.58	U	
78-87-5	1,2-Dichloropropane	100	0.58	U	
108-67-8	1,3,5-Trimethylbenzene	100	21	D	J
541-73-1	1,3-Dichlorobenzene	100	0.58	U	UJ
106-46-7	1,4-Dichlorobenzene	100	0.58	U	UJ
123-91-1	1,4-Dioxane	100	~~12~~	U	R
78-93-3	2-Butanone	100	0.58	U	UJ
591-78-6	2-Hexanone	100	0.58	U	
108-10-1	4-Methyl-2-pentanone	100	0.58	U	
67-64-1	Acetone	100	1.2	U	
107-02-8	Acrolein	100	1.2	U	
107-13-1	Acrylonitrile	100	0.58	U	
71-43-2	Benzene	100	0.58	U	
74-97-5	Bromochloromethane	100	0.58	U	
75-27-4	Bromodichloromethane	100	0.58	U	
75-25-2	Bromoform	100	0.58	U	
74-83-9	Bromomethane	100	0.58	U	
75-15-0	Carbon disulfide	100	0.58	U	
56-23-5	Carbon tetrachloride	100	0.58	U	
108-90-7	Chlorobenzene	100	0.58	U	
75-00-3	Chloroethane	100	0.58	U	
67-66-3	Chloroform	100	0.58	U	
74-87-3	Chloromethane	100	0.58	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.58	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.58	U	
110-82-7	Cyclohexane	100	17	D	J

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID: V3178206.D

Sampled: 11/09/23 12:45 Prepared: 11/14/23 09:00 Analyzed: 11/15/23 18:54

Solids: 85.25 Preparation: EPA 5035A Initial/Final: 5.02 g / 5 ml

Batch: BK30917 Sequence: S3K1611 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.58	U	UJ
74-95-3	Dibromomethane	100	0.58	U	UJ
75-71-8	Dichlorodifluoromethane	100	0.58	U	UJ
100-41-4	Ethyl Benzene	100	5.8	D	J
87-68-3	Hexachlorobutadiene	100	0.58	U	UJ
98-82-8	Isopropylbenzene	100	3.2	D	J
79-20-9	Methyl acetate	100	0.58	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.58	U	UJ
75-09-2	Methylene chloride	100	1.2	U	UJ
104-51-8	n-Butylbenzene	100	9.2	D	J
103-65-1	n-Propylbenzene	100	11	D	J
95-47-6	o-Xylene	100	0.58	U	UJ
179601-23-1	p- & m- Xylenes	100	1.2	U	UJ
99-87-6	p-Isopropyltoluene	100	2.6	D	J
135-98-8	sec-Butylbenzene	100	2.5	D	J
100-42-5	Styrene	100	0.58	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	0.58	U	
98-06-6	tert-Butylbenzene	100	0.58	U	
127-18-4	Tetrachloroethylene	100	0.58	U	
108-88-3	Toluene	100	0.58	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.58	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.58	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.58	U	
79-01-6	Trichloroethylene	100	0.58	U	
75-69-4	Trichlorofluoromethane	100	0.58	U	
75-01-4	Vinyl Chloride	100	0.58	U	
1330-20-7	Xylenes, Total	100	1.8	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	35.4	70.7	77 - 125	D
SURR: Toluene-d8	50.0	48.5	97.0	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	56.9	114	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	170229	5.845	125307	5.845	
ISTD: Chlorobenzene-d5	465820	8.874	557292	8.871	
ISTD: 1,2-Dichlorobenzene-d4	198640	11.859	249463	11.862	

* Values outside of QC limits

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (12-14ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-02RE1	File ID:	V11C013167.D
Sampled:	11/09/23 12:45	Prepared:	11/17/23 09:00	Analyzed:	11/17/23 15:58
Solids:	85.25	Preparation:	EPA 5035A	Initial/Final:	5.46 g / 5 ml
Batch:	BK31127	Sequence:	S3K1905	Calibration:	SJ30021
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
108-87-2	Methylcyclohexane	200	2.7	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.8	97.5	77 - 125	D
SURR: Toluene-d8	50.0	49.2	98.4	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	39.7	79.4	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	163829	6.269	124228	6.271	
ISTD: Chlorobenzene-d5	685075	9.329	520240	9.33	
ISTD: 1,2-Dichlorobenzene-d4	360018	12.342	229358	12.337	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: V3178224.D

Sampled: 11/09/23 12:51 Prepared: 11/16/23 09:00 Analyzed: 11/16/23 15:07

Solids: 68.10 Preparation: EPA 5035A Initial/Final: 5.46 g / 5 ml

Batch: BK31035 Sequence: S3K1716 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.67	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.67	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.67	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.67	U	
79-00-5	1,1,2-Trichloroethane	100	0.67	U	
75-34-3	1,1-Dichloroethane	100	0.67	U	
75-35-4	1,1-Dichloroethylene	100	0.67	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.67	U	
96-18-4	1,2,3-Trichloropropane	100	0.67	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.67	U	
95-63-6	1,2,4-Trimethylbenzene	100	1.6	D	J
96-12-8	1,2-Dibromo-3-chloropropane	100	0.67	U	UJ
106-93-4	1,2-Dibromoethane	100	0.67	U	
95-50-1	1,2-Dichlorobenzene	100	0.67	U	
107-06-2	1,2-Dichloroethane	100	0.67	U	
78-87-5	1,2-Dichloropropane	100	0.67	U	
108-67-8	1,3,5-Trimethylbenzene	100	15	D	J
541-73-1	1,3-Dichlorobenzene	100	0.67	U	UJ
106-46-7	1,4-Dichlorobenzene	100	0.67	U	UJ
123-91-1	1,4-Dioxane	100	~~13~~	U	R
78-93-3	2-Butanone	100	0.67	U	UJ
591-78-6	2-Hexanone	100	0.67	U	
108-10-1	4-Methyl-2-pentanone	100	0.67	U	
67-64-1	Acetone	100	1.3	U	
107-02-8	Acrolein	100	1.3	U	
107-13-1	Acrylonitrile	100	0.67	U	
71-43-2	Benzene	100	0.67	U	
74-97-5	Bromochloromethane	100	0.67	U	
75-27-4	Bromodichloromethane	100	0.67	U	
75-25-2	Bromoform	100	0.67	U	
74-83-9	Bromomethane	100	0.67	U	
75-15-0	Carbon disulfide	100	0.67	U	
56-23-5	Carbon tetrachloride	100	0.67	U	
108-90-7	Chlorobenzene	100	0.67	U	
75-00-3	Chloroethane	100	0.67	U	
67-66-3	Chloroform	100	0.67	U	
74-87-3	Chloromethane	100	0.67	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.67	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.67	U	
110-82-7	Cyclohexane	100	22	D	J

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: V3178224.D

Sampled: 11/09/23 12:51 Prepared: 11/16/23 09:00 Analyzed: 11/16/23 15:07

Solids: 68.10 Preparation: EPA 5035A Initial/Final: 5.46 g / 5 ml

Batch: BK31035 Sequence: S3K1716 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.67	U	UJ
74-95-3	Dibromomethane	100	0.67	U	UJ
75-71-8	Dichlorodifluoromethane	100	0.67	U	UJ
100-41-4	Ethyl Benzene	100	7.8	D	J
87-68-3	Hexachlorobutadiene	100	0.67	U	UJ
98-82-8	Isopropylbenzene	100	2.9	D	J
79-20-9	Methyl acetate	100	0.67	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.67	U	UJ
75-09-2	Methylene chloride	100	1.3	U	UJ
104-51-8	n-Butylbenzene	100	7.1	D	J
103-65-1	n-Propylbenzene	100	10	D	J
95-47-6	o-Xylene	100	0.67	U	UJ
179601-23-1	p- & m- Xylenes	100	1.3	U	UJ
99-87-6	p-Isopropyltoluene	100	1.9	D	J
135-98-8	sec-Butylbenzene	100	2.0	D	J
100-42-5	Styrene	100	0.67	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	0.67	U	
98-06-6	tert-Butylbenzene	100	0.67	U	
127-18-4	Tetrachloroethylene	100	0.67	U	
108-88-3	Toluene	100	0.67	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.67	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.67	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.67	U	
79-01-6	Trichloroethylene	100	0.67	U	
75-69-4	Trichlorofluoromethane	100	0.67	U	
75-01-4	Vinyl Chloride	100	0.67	U	
1330-20-7	Xylenes, Total	100	2.0	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	35.8	71.5	77 - 125	D
SURR: Toluene-d8	50.0	48.0	96.1	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	52.4	105	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	177681	5.845	118909	5.842	
ISTD: Chlorobenzene-d5	483652	8.874	550686	8.871	
ISTD: 1,2-Dichlorobenzene-d4	212951	11.862	250166	11.862	

* Values outside of QC limits

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (14-18ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-03RE1	File ID:	V11C013168.D
Sampled:	11/09/23 12:51	Prepared:	11/17/23 09:00	Analyzed:	11/17/23 16:25
Solids:	68.10	Preparation:	EPA 5035A	Initial/Final:	5.46 g / 5 ml
Batch:	BK31127	Sequence:	S3K1905	Calibration:	SJ30021
Instrument:	VOA#11				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
108-87-2	Methylcyclohexane	200	99	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	40.8	81.6	77 - 125	D
SURR: Toluene-d8	50.0	51.3	103	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	54.9	110	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	203671	6.275	124228	6.271	
ISTD: Chlorobenzene-d5	636378	9.329	520240	9.33	
ISTD: 1,2-Dichlorobenzene-d4	267467	12.336	229358	12.337	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID: V3178226.D

Sampled: 11/09/23 13:05 Prepared: 11/16/23 09:00 Analyzed: 11/16/23 15:59

Solids: 85.37 Preparation: EPA 5035A Initial/Final: 7.29 g / 5 ml

Batch: BK31035 Sequence: S3K1716 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0040	U	
71-55-6	1,1,1-Trichloroethane	1	0.0040	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0040	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0040	U	
79-00-5	1,1,2-Trichloroethane	1	0.0040	U	
75-34-3	1,1-Dichloroethane	1	0.0040	U	
75-35-4	1,1-Dichloroethylene	1	0.0040	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0040	U	
96-18-4	1,2,3-Trichloropropane	1	0.0040	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0040	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0040	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0040	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0040	U	
95-50-1	1,2-Dichlorobenzene	1	0.0040	U	
107-06-2	1,2-Dichloroethane	1	0.0040	U	
78-87-5	1,2-Dichloropropane	1	0.0040	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0040	U	
541-73-1	1,3-Dichlorobenzene	1	0.0040	U	
106-46-7	1,4-Dichlorobenzene	1	0.0040	U	
123-91-1	1,4-Dioxane	1	~~0.080~~	U	R
78-93-3	2-Butanone	1	0.0040	U	UJ
591-78-6	2-Hexanone	1	0.0040	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0040	U	UJ
67-64-1	Acetone	1	0.0080	U	UJ
107-02-8	Acrolein	1	0.0080	U	
107-13-1	Acrylonitrile	1	0.0040	U	
71-43-2	Benzene	1	0.0040	U	
74-97-5	Bromochloromethane	1	0.0040	U	
75-27-4	Bromodichloromethane	1	0.0040	U	
75-25-2	Bromoform	1	0.0040	U	
74-83-9	Bromomethane	1	0.0040	U	
75-15-0	Carbon disulfide	1	0.0040	U	
56-23-5	Carbon tetrachloride	1	0.0040	U	
108-90-7	Chlorobenzene	1	0.0040	U	
75-00-3	Chloroethane	1	0.0040	U	
67-66-3	Chloroform	1	0.0040	U	
74-87-3	Chloromethane	1	0.0040	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0040	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0040	U	
110-82-7	Cyclohexane	1	0.0040	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID: V3178226.D

Sampled: 11/09/23 13:05 Prepared: 11/16/23 09:00 Analyzed: 11/16/23 15:59

Solids: 85.37 Preparation: EPA 5035A Initial/Final: 7.29 g / 5 ml

Batch: BK31035 Sequence: S3K1716 Calibration: SJ30040 Instrument: VOA No. 3

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0040	U	
74-95-3	Dibromomethane	1	0.0040	U	
75-71-8	Dichlorodifluoromethane	1	0.0040	U	
100-41-4	Ethyl Benzene	1	0.0040	U	
87-68-3	Hexachlorobutadiene	1	0.0040	U	
98-82-8	Isopropylbenzene	1	0.0040	U	
79-20-9	Methyl acetate	1	0.0040	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0040	U	
108-87-2	Methylcyclohexane	1	0.0040	U	
75-09-2	Methylene chloride	1	0.0080	U	
104-51-8	n-Butylbenzene	1	0.0040	U	
103-65-1	n-Propylbenzene	1	0.0040	U	
95-47-6	o-Xylene	1	0.0040	U	
179601-23-1	p- & m- Xylenes	1	0.0080	U	
99-87-6	p-Isopropyltoluene	1	0.0040	U	
135-98-8	sec-Butylbenzene	1	0.0040	U	
100-42-5	Styrene	1	0.0040	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0040	U	UJ
98-06-6	tert-Butylbenzene	1	0.0040	U	
127-18-4	Tetrachloroethylene	1	0.0040	U	
108-88-3	Toluene	1	0.0040	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0040	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0040	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0040	U	UJ
79-01-6	Trichloroethylene	1	0.0040	U	
75-69-4	Trichlorofluoromethane	1	0.0040	U	
75-01-4	Vinyl Chloride	1	0.0040	U	
1330-20-7	Xylenes, Total	1	0.012	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.3	98.5	77 - 125	
SURR: Toluene-d8	50.0	49.2	98.4	85 - 120	
SURR: p-Bromofluorobenzene	50.0	39.8	79.6	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	125978	5.842	118909	5.842	
ISTD: Chlorobenzene-d5	587266	8.875	550686	8.871	
ISTD: 1,2-Dichlorobenzene-d4	266133	11.862	250166	11.862	

* Values outside of QC limits

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Water Laboratory ID: 23K0753-05 File ID: V10C021626.D

Sampled: 11/09/23 15:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 13:59

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30900 Sequence: S3K1517 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	UJ
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	UJ
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	UJ
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Water Laboratory ID: 23K0753-05 File ID: V10C021626.D

Sampled: 11/09/23 15:00 Prepared: 11/14/23 09:00 Analyzed: 11/14/23 13:59

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK30900 Sequence: S3K1517 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	UJ
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.8	108	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.74	97.4	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	479918	6.443	474551	6.443	
ISTD: Chlorobenzene-d5	1754463	9.508	1744974	9.508	
ISTD: 1,2-Dichlorobenzene-d4	653027	12.527	629302	12.524	

* Values outside of QC limits

MKP 2/5/2024

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
CLASS: SVOA
METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (0-2.5ft)	23K0753-01RE1
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/18/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID: BNA1024460.D

Sampled: 11/09/23 12:40 Prepared: 11/17/23 08:10 Analyzed: 11/18/23 19:49

Solids: 88.78 Preparation: EPA 3550C Initial/Final: 30.3 g / 1 mL

Batch: BK31106 Sequence: S3K2052 Calibration: SK30028 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0639	JD	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.186	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0930	U	
95-50-1	1,2-Dichlorobenzene	2	0.0930	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0930	U	
541-73-1	1,3-Dichlorobenzene	2	0.0930	U	
106-46-7	1,4-Dichlorobenzene	2	0.0930	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.186	U	UJ
95-95-4	2,4,5-Trichlorophenol	2	0.0930	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.0930	U	
120-83-2	2,4-Dichlorophenol	2	0.0930	U	
105-67-9	2,4-Dimethylphenol	2	0.0930	U	UJ
51-28-5	2,4-Dinitrophenol	2	~~0.186~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0930	U	
606-20-2	2,6-Dinitrotoluene	2	0.0930	U	
91-58-7	2-Chloronaphthalene	2	0.0930	U	
95-57-8	2-Chlorophenol	2	0.0930	U	
91-57-6	2-Methylnaphthalene	2	0.281	D	
95-48-7	2-Methylphenol	2	0.0930	U	
88-74-4	2-Nitroaniline	2	0.186	U	
88-75-5	2-Nitrophenol	2	0.0930	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0550	JD	
91-94-1	3,3-Dichlorobenzidine	2	0.0930	U	UJ
99-09-2	3-Nitroaniline	2	0.186	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.186	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0930	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0930	U	
106-47-8	4-Chloroaniline	2	0.0930	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0930	U	
100-01-6	4-Nitroaniline	2	0.186	U	
100-02-7	4-Nitrophenol	2	0.186	U	
83-32-9	Acenaphthene	2	0.575	D	
208-96-8	Acenaphthylene	2	0.137	D	
98-86-2	Acetophenone	2	0.0930	U	
62-53-3	Aniline	2	0.372	U	
120-12-7	Anthracene	2	1.10	D	
1912-24-9	Atrazine	2	0.0930	U	
100-52-7	Benzaldehyde	2	0.0930	U	
92-87-5	Benzidine	2	0.372	U	UJ
56-55-3	Benzo(a)anthracene	2	1.96	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0753

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil | Laboratory ID: 23K0753-01 | File ID: BNA1024460.D

Sampled: 11/09/23 12:40 | Prepared: 11/17/23 08:10 | Analyzed: 11/18/23 19:49

Solids: 88.78 | Preparation: EPA 3550C | Initial/Final: 30.3 g / 1 mL

Batch: BK31106 | Sequence: S3K2052 | Calibration: SK30028 | Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	2.18	D	
205-99-2	Benzo(b)fluoranthene	2	2.43	D	
191-24-2	Benzo(g,h,i)perylene	2	1.34	D	
207-08-9	Benzo(k)fluoranthene	2	0.842	D	
65-85-0	Benzoic acid	2	0.0930	U	UJ
100-51-6	Benzyl alcohol	2	0.0930	U	
85-68-7	Benzyl butyl phthalate	2	0.376	D	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0930	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0930	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0930	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0930	U	
105-60-2	Caprolactam	2	0.186	U	
86-74-8	Carbazole	2	0.375	D	
218-01-9	Chrysene	2	1.72	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.306	D	J
132-64-9	Dibenzofuran	2	0.358	D	
84-66-2	Diethyl phthalate	2	0.0930	U	
131-11-3	Dimethyl phthalate	2	0.0930	U	
84-74-2	Di-n-butyl phthalate	2	0.0930	U	
117-84-0	Di-n-octyl phthalate	2	0.0930	U	UJ
122-39-4	Diphenylamine	2	0.186	U	
86-73-7	Fluorene	2	0.485	D	
118-74-1	Hexachlorobenzene	2	0.0930	U	
87-68-3	Hexachlorobutadiene	2	0.0930	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0930	U	UJ
67-72-1	Hexachloroethane	2	0.0930	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	1.65	D	J
78-59-1	Isophorone	2	0.0930	U	
91-20-3	Naphthalene	2	0.912	D	
98-95-3	Nitrobenzene	2	0.0930	U	
62-75-9	N-Nitrosodimethylamine	2	0.0930	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0930	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0930	U	
87-86-5	Pentachlorophenol	2	0.0930	U	UJ
108-95-2	Phenol	2	0.0930	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.86	0.774	41.6	20 - 108	
SURR: Phenol-d6	1.86	0.752	40.5	23 - 114	
SURR: Nitrobenzene-d5	0.929	0.355	38.2	22 - 108	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-01	File ID:	BNA1024460.D
Sampled:	11/09/23 12:40	Prepared:	11/17/23 08:10	Analyzed:	11/18/23 19:49
Solids:	88.78	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BK31106	Sequence:	S3K2052	Calibration:	SK30028
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorobiphenyl	0.929	0.372	40.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.86	1.01	54.5	19 - 110	
SURR: Terphenyl-d14	0.929	0.424	45.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	237568	5.228	207537	5.228	
ISTD: Naphthalene-d8	917498	6.292	939182	6.298	
ISTD: Acenaphthene-d10	592253	8.105	538578	8.105	
ISTD: Phenanthrene-d10	1355635	10.064	1372446	10.069	
ISTD: Chrysene-d12	1291900	14.858	1307613	14.858	
ISTD: Perylene-d12	1567662	17.874	1388191	17.857	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0753

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil | Laboratory ID: 23K0753-01RE1 | File ID: E20017464.D

Sampled: 11/09/23 12:40 | Prepared: 11/17/23 08:10 | Analyzed: 11/18/23 03:41

Solids: 88.78 | Preparation: EPA 3550C | Initial/Final: 30.3 g / 1 mL

Batch: BK31106 | Sequence: S3K2010 | Calibration: SK30019 | Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
206-44-0	Fluoranthene	10	4.32	D
85-01-8	Phenanthrene	10	4.15	D
129-00-0	Pyrene	10	4.37	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.86	0.706	38.0	20 - 108	
SURR: Phenol-d6	1.86	0.710	38.2	23 - 114	
SURR: Nitrobenzene-d5	0.929	0.309	33.2	22 - 108	
SURR: 2-Fluorobiphenyl	0.929	0.327	35.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.86	0.792	42.6	19 - 110	
SURR: Terphenyl-d14	0.929	0.439	47.2	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	335265	5.645	290618	5.645	
ISTD: Naphthalene-d8	1522589	6.546	1412613	6.551	
ISTD: Acenaphthene-d10	927734	8.174	751398	8.174	
ISTD: Phenanthrene-d10	1651378	10.328	1220922	10.328	
ISTD: Chrysene-d12	1170504	15.884	923671	15.889	
ISTD: Perylene-d12	1107040	18.997	1016850	18.992	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID: BNA1024461.D

Sampled: 11/09/23 12:45 Prepared: 11/17/23 08:10 Analyzed: 11/18/23 20:19

Solids: 85.25 Preparation: EPA 3550C Initial/Final: 30.3 g / 1 mL

Batch: BK31106 Sequence: S3K2052 Calibration: SK30028 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0969	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.193	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0969	U	
95-50-1	1,2-Dichlorobenzene	2	0.0969	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0969	U	
541-73-1	1,3-Dichlorobenzene	2	0.0969	U	
106-46-7	1,4-Dichlorobenzene	2	0.0969	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.193	U	UJ
95-95-4	2,4,5-Trichlorophenol	2	0.0969	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.0969	U	
120-83-2	2,4-Dichlorophenol	2	0.0969	U	
105-67-9	2,4-Dimethylphenol	2	0.0969	U	UJ
51-28-5	2,4-Dinitrophenol	2	~~0.193~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0969	U	
606-20-2	2,6-Dinitrotoluene	2	0.0969	U	
91-58-7	2-Chloronaphthalene	2	0.0969	U	
95-57-8	2-Chlorophenol	2	0.0969	U	
91-57-6	2-Methylnaphthalene	2	0.118	D	
95-48-7	2-Methylphenol	2	0.0969	U	
88-74-4	2-Nitroaniline	2	0.193	U	
88-75-5	2-Nitrophenol	2	0.0969	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0969	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0969	U	UJ
99-09-2	3-Nitroaniline	2	0.193	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.193	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0969	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0969	U	
106-47-8	4-Chloroaniline	2	0.0969	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0969	U	
100-01-6	4-Nitroaniline	2	0.193	U	
100-02-7	4-Nitrophenol	2	0.193	U	
83-32-9	Acenaphthene	2	0.369	D	
208-96-8	Acenaphthylene	2	0.0969	U	
98-86-2	Acetophenone	2	0.0969	U	
62-53-3	Aniline	2	0.388	U	
120-12-7	Anthracene	2	0.646	D	
1912-24-9	Atrazine	2	0.0969	U	
100-52-7	Benzaldehyde	2	0.0969	U	
92-87-5	Benzidine	2	0.388	U	UJ
56-55-3	Benzo(a)anthracene	2	1.28	D	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID: BNA1024461.D

Sampled: 11/09/23 12:45 Prepared: 11/17/23 08:10 Analyzed: 11/18/23 20:19

Solids: 85.25 Preparation: EPA 3550C Initial/Final: 30.3 g / 1 mL

Batch: BK31106 Sequence: S3K2052 Calibration: SK30028 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	1.65	D	
205-99-2	Benzo(b)fluoranthene	2	1.66	D	
191-24-2	Benzo(g,h,i)perylene	2	1.02	D	
207-08-9	Benzo(k)fluoranthene	2	0.600	D	
65-85-0	Benzoic acid	2	0.0969	U	UJ
100-51-6	Benzyl alcohol	2	0.0969	U	
85-68-7	Benzyl butyl phthalate	2	0.0969	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0969	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0969	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0969	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0969	U	
105-60-2	Caprolactam	2	0.193	U	
86-74-8	Carbazole	2	0.208	D	
218-01-9	Chrysene	2	1.29	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.207	D	J
132-64-9	Dibenzofuran	2	0.152	D	
84-66-2	Diethyl phthalate	2	0.0969	U	
131-11-3	Dimethyl phthalate	2	0.0969	U	
84-74-2	Di-n-butyl phthalate	2	0.0969	U	
117-84-0	Di-n-octyl phthalate	2	0.0969	U	UJ
122-39-4	Diphenylamine	2	0.193	U	
206-44-0	Fluoranthene	2	2.67	D	
86-73-7	Fluorene	2	0.310	D	
118-74-1	Hexachlorobenzene	2	0.0969	U	
87-68-3	Hexachlorobutadiene	2	0.0969	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0969	U	UJ
67-72-1	Hexachloroethane	2	0.0969	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	1.08	D	J
78-59-1	Isophorone	2	0.0969	U	
91-20-3	Naphthalene	2	0.435	D	
98-95-3	Nitrobenzene	2	0.0969	U	
62-75-9	N-Nitrosodimethylamine	2	0.0969	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0969	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0969	U	
87-86-5	Pentachlorophenol	2	0.0969	U	UJ
85-01-8	Phenanthrene	2	2.59	D	
108-95-2	Phenol	2	0.0969	U	
129-00-0	Pyrene	2	2.97	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (12-14ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-02	File ID:	BNA1024461.D
Sampled:	11/09/23 12:45	Prepared:	11/17/23 08:10	Analyzed:	11/18/23 20:19
Solids:	85.25	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 1 mL
Batch:	BK31106	Sequence:	S3K2052	Calibration:	SK30028
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.94	1.04	53.8	20 - 108	
SURR: Phenol-d6	1.94	1.12	57.9	23 - 114	
SURR: Nitrobenzene-d5	0.968	0.523	54.1	22 - 108	
SURR: 2-Fluorobiphenyl	0.968	0.457	47.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.94	1.11	57.6	19 - 110	
SURR: Terphenyl-d14	0.968	0.523	54.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	324770	5.234	207537	5.228	
ISTD: Naphthalene-d8	1355931	6.298	939182	6.298	
ISTD: Acenaphthene-d10	907470	8.111	538578	8.105	
ISTD: Phenanthrene-d10	1969452	10.069	1372446	10.069	
ISTD: Chrysene-d12	1759579	14.881	1307613	14.858	
ISTD: Perylene-d12	2093814	17.903	1388191	17.857	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: E20017466.D

Sampled: 11/09/23 12:51 Prepared: 11/17/23 08:10 Analyzed: 11/18/23 04:57

Solids: 68.10 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK31106 Sequence: S3K2010 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.122	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.243	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.122	U	
95-50-1	1,2-Dichlorobenzene	2	0.122	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.122	U	
541-73-1	1,3-Dichlorobenzene	2	0.122	U	
106-46-7	1,4-Dichlorobenzene	2	0.122	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.243	U	
95-95-4	2,4,5-Trichlorophenol	2	0.122	U	
88-06-2	2,4,6-Trichlorophenol	2	0.122	U	
120-83-2	2,4-Dichlorophenol	2	0.122	U	
105-67-9	2,4-Dimethylphenol	2	0.122	U	
51-28-5	2,4-Dinitrophenol	2	0.243	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.122	U	
606-20-2	2,6-Dinitrotoluene	2	0.122	U	
91-58-7	2-Chloronaphthalene	2	0.122	U	
95-57-8	2-Chlorophenol	2	0.122	U	
91-57-6	2-Methylnaphthalene	2	1.32	D	
95-48-7	2-Methylphenol	2	0.122	U	UJ
88-74-4	2-Nitroaniline	2	0.243	U	
88-75-5	2-Nitrophenol	2	0.122	U	
65794-96-9	3- & 4-Methylphenols	2	0.122	U	
91-94-1	3,3-Dichlorobenzidine	2	0.122	U	
99-09-2	3-Nitroaniline	2	0.243	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.243	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.122	U	
59-50-7	4-Chloro-3-methylphenol	2	0.122	U	
106-47-8	4-Chloroaniline	2	0.122	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.122	U	
100-01-6	4-Nitroaniline	2	0.243	U	
100-02-7	4-Nitrophenol	2	0.243	U	
83-32-9	Acenaphthene	2	0.122	U	
208-96-8	Acenaphthylene	2	0.122	U	
98-86-2	Acetophenone	2	0.122	U	
62-53-3	Aniline	2	0.487	U	
120-12-7	Anthracene	2	0.113	JD	
1912-24-9	Atrazine	2	0.122	U	
100-52-7	Benzaldehyde	2	0.122	U	
92-87-5	Benzidine	2	0.487	U	
56-55-3	Benzo(a)anthracene	2	0.174	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: E20017466.D

Sampled: 11/09/23 12:51 Prepared: 11/17/23 08:10 Analyzed: 11/18/23 04:57

Solids: 68.10 Preparation: EPA 3550C Initial/Final: 30.2 g / 1 mL

Batch: BK31106 Sequence: S3K2010 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.145	D	
205-99-2	Benzo(b)fluoranthene	2	0.180	D	
191-24-2	Benzo(g,h,i)perylene	2	0.106	JD	
207-08-9	Benzo(k)fluoranthene	2	0.0642	JD	
65-85-0	Benzoic acid	2	0.122	U	
100-51-6	Benzyl alcohol	2	0.122	U	
85-68-7	Benzyl butyl phthalate	2	0.122	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.122	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.122	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.122	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.122	U	
105-60-2	Caprolactam	2	0.243	U	
86-74-8	Carbazole	2	0.122	U	
218-01-9	Chrysene	2	0.161	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.122	U	
132-64-9	Dibenzofuran	2	0.122	U	
84-66-2	Diethyl phthalate	2	0.122	U	
131-11-3	Dimethyl phthalate	2	0.122	U	
84-74-2	Di-n-butyl phthalate	2	0.122	U	
117-84-0	Di-n-octyl phthalate	2	0.122	U	
122-39-4	Diphenylamine	2	0.243	U	
206-44-0	Fluoranthene	2	0.422	D	
86-73-7	Fluorene	2	0.121	JD	
118-74-1	Hexachlorobenzene	2	0.122	U	
87-68-3	Hexachlorobutadiene	2	0.122	U	
77-47-4	Hexachlorocyclopentadiene	2	0.122	U	UJ
67-72-1	Hexachloroethane	2	0.122	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0963	JD	
78-59-1	Isophorone	2	0.122	U	
91-20-3	Naphthalene	2	0.951	D	
98-95-3	Nitrobenzene	2	0.122	U	
62-75-9	N-Nitrosodimethylamine	2	0.122	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.122	U	
86-30-6	N-Nitrosodiphenylamine	2	0.122	U	
87-86-5	Pentachlorophenol	2	0.122	U	
85-01-8	Phenanthrene	2	0.502	D	
108-95-2	Phenol	2	0.122	U	
129-00-0	Pyrene	2	0.424	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (14-18ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-03	File ID:	E20017466.D
Sampled:	11/09/23 12:51	Prepared:	11/17/23 08:10	Analyzed:	11/18/23 04:57
Solids:	68.10	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 1 mL
Batch:	BK31106	Sequence:	S3K2010	Calibration:	SK30019
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.43	1.70	69.7	20 - 108	
SURR: Phenol-d6	2.43	1.63	67.0	23 - 114	
SURR: Nitrobenzene-d5	1.22	0.909	74.8	22 - 108	
SURR: 2-Fluorobiphenyl	1.22	0.760	62.5	21 - 113	
SURR: 2,4,6-Tribromophenol	2.43	1.80	74.1	19 - 110	
SURR: Terphenyl-d14	1.22	0.918	75.5	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	373630	5.645	290618	5.645	
ISTD: Naphthalene-d8	1683735	6.546	1412613	6.551	
ISTD: Acenaphthene-d10	970276	8.174	751398	8.174	
ISTD: Phenanthrene-d10	1635900	10.328	1220922	10.328	
ISTD: Chrysene-d12	1191834	15.889	923671	15.889	
ISTD: Perylene-d12	1154611	18.997	1016850	18.992	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID: E20017467.D

Sampled: 11/09/23 13:05 Prepared: 11/17/23 08:10 Analyzed: 11/18/23 05:33

Solids: 85.37 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31106 Sequence: S3K2010 Calibration: SK30019 Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0961	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.192	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0961	U	
95-50-1	1,2-Dichlorobenzene	2	0.0961	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0961	U	
541-73-1	1,3-Dichlorobenzene	2	0.0961	U	
106-46-7	1,4-Dichlorobenzene	2	0.0961	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.192	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0961	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0961	U	
120-83-2	2,4-Dichlorophenol	2	0.0961	U	
105-67-9	2,4-Dimethylphenol	2	0.0961	U	
51-28-5	2,4-Dinitrophenol	2	0.192	U	UJ
121-14-2	2,4-Dinitrotoluene	2	0.0961	U	
606-20-2	2,6-Dinitrotoluene	2	0.0961	U	
91-58-7	2-Chloronaphthalene	2	0.0961	U	
95-57-8	2-Chlorophenol	2	0.0961	U	
91-57-6	2-Methylnaphthalene	2	0.0961	U	
95-48-7	2-Methylphenol	2	0.0961	U	UJ
88-74-4	2-Nitroaniline	2	0.192	U	
88-75-5	2-Nitrophenol	2	0.0961	U	
65794-96-9	3- & 4-Methylphenols	2	0.0961	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0961	U	
99-09-2	3-Nitroaniline	2	0.192	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.192	U	UJ
101-55-3	4-Bromophenyl phenyl ether	2	0.0961	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0961	U	
106-47-8	4-Chloroaniline	2	0.0961	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0961	U	
100-01-6	4-Nitroaniline	2	0.192	U	
100-02-7	4-Nitrophenol	2	0.192	U	
83-32-9	Acenaphthene	2	0.0961	U	
208-96-8	Acenaphthylene	2	0.0961	U	
98-86-2	Acetophenone	2	0.0961	U	
62-53-3	Aniline	2	0.385	U	
120-12-7	Anthracene	2	0.0961	U	
1912-24-9	Atrazine	2	0.0961	U	
100-52-7	Benzaldehyde	2	0.0961	U	
92-87-5	Benzidine	2	0.385	U	
56-55-3	Benzo(a)anthracene	2	0.0961	U	

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0753

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil | Laboratory ID: 23K0753-04 | File ID: E20017467.D

Sampled: 11/09/23 13:05 | Prepared: 11/17/23 08:10 | Analyzed: 11/18/23 05:33

Solids: 85.37 | Preparation: EPA 3550C | Initial/Final: 30.5 g / 1 mL

Batch: BK31106 | Sequence: S3K2010 | Calibration: SK30019 | Instrument: BNA#2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
50-32-8	Benzo(a)pyrene	2	0.0961	U
205-99-2	Benzo(b)fluoranthene	2	0.0961	U
191-24-2	Benzo(g,h,i)perylene	2	0.0961	U
207-08-9	Benzo(k)fluoranthene	2	0.0961	U
65-85-0	Benzoic acid	2	0.0961	U
100-51-6	Benzyl alcohol	2	0.0961	U
85-68-7	Benzyl butyl phthalate	2	0.0961	U
111-91-1	Bis(2-chloroethoxy)methane	2	0.0961	U
111-44-4	Bis(2-chloroethyl)ether	2	0.0961	U
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0961	U
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0961	U
105-60-2	Caprolactam	2	0.192	U
86-74-8	Carbazole	2	0.0961	U
218-01-9	Chrysene	2	0.0961	U
53-70-3	Dibenzo(a,h)anthracene	2	0.0961	U
132-64-9	Dibenzofuran	2	0.0961	U
84-66-2	Diethyl phthalate	2	0.0961	U
131-11-3	Dimethyl phthalate	2	0.0961	U
84-74-2	Di-n-butyl phthalate	2	0.0961	U
117-84-0	Di-n-octyl phthalate	2	0.0961	U
122-39-4	Diphenylamine	2	0.192	U
206-44-0	Fluoranthene	2	0.0961	U
86-73-7	Fluorene	2	0.0961	U
118-74-1	Hexachlorobenzene	2	0.0961	U
87-68-3	Hexachlorobutadiene	2	0.0961	U
77-47-4	Hexachlorocyclopentadiene	2	0.0961	U UJ
67-72-1	Hexachloroethane	2	0.0961	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.0961	U
78-59-1	Isophorone	2	0.0961	U
91-20-3	Naphthalene	2	0.0961	U
98-95-3	Nitrobenzene	2	0.0961	U
62-75-9	N-Nitrosodimethylamine	2	0.0961	U
621-64-7	N-nitroso-di-n-propylamine	2	0.0961	U
86-30-6	N-Nitrosodiphenylamine	2	0.0961	U
87-86-5	Pentachlorophenol	2	0.0961	U
85-01-8	Phenanthrene	2	0.0961	U
108-95-2	Phenol	2	0.0961	U
129-00-0	Pyrene	2	0.0961	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP7 (27.5-30ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-04	File ID:	E20017467.D
Sampled:	11/09/23 13:05	Prepared:	11/17/23 08:10	Analyzed:	11/18/23 05:33
Solids:	85.37	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31106	Sequence:	S3K2010	Calibration:	SK30019
Instrument:	BNA#2				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.92	1.24	64.4	20 - 108	
SURR: Phenol-d6	1.92	1.18	61.6	23 - 114	
SURR: Nitrobenzene-d5	0.960	0.546	56.9	22 - 108	
SURR: 2-Fluorobiphenyl	0.960	0.544	56.6	21 - 113	
SURR: 2,4,6-Tribromophenol	1.92	1.43	74.6	19 - 110	
SURR: Terphenyl-d14	0.960	0.651	67.8	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	375439	5.645	290618	5.645	
ISTD: Naphthalene-d8	1680701	6.546	1412613	6.551	
ISTD: Acenaphthene-d10	1001991	8.174	751398	8.174	
ISTD: Phenanthrene-d10	1722090	10.328	1220922	10.328	
ISTD: Chrysene-d12	1342718	15.884	923671	15.889	
ISTD: Perylene-d12	1347509	18.997	1016850	18.992	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: SVOA

METHOD: EPA 8270D SIM

No data validation qualifiers were added

MKP 2/5/2024

DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/18/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP7 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-01	File ID:	E800073595.D
Sampled:	11/09/23 12:40	Prepared:	11/16/23 08:36	Analyzed:	11/16/23 21:06
Solids:	88.78	Preparation:	EPA 3550C	Initial/Final:	10.5 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0190	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.476	0.322	67.6	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	181396	9.216	201744	9.223	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP7 (12-14ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-02	File ID:	E800073597.D
Sampled:	11/09/23 12:45	Prepared:	11/16/23 08:36	Analyzed:	11/16/23 21:40
Solids:	85.25	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.313	63.1	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	181688	9.208	182454	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP7 (14-18ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-03	File ID:	E800073598.D
Sampled:	11/09/23 12:51	Prepared:	11/16/23 08:36	Analyzed:	11/16/23 21:58
Solids:	68.10	Preparation:	EPA 3550C	Initial/Final:	10.9 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0183	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.459	0.312	68.0	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	184473	9.216	182454	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP7 (27.5-30ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-04	File ID:	E800073599.D
Sampled:	11/09/23 13:05	Prepared:	11/16/23 08:36	Analyzed:	11/16/23 22:15
Solids:	85.37	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.330	66.7	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	178074	9.216	182454	9.216	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
CLASS: PFAS
METHOD: EPA 1633 Draft 3

DATA PACKAGE COVER PAGE

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04
Field Blank PFAS	23K0753-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/14/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-01	File ID:	QQQ32443.d
Sampled:	11/09/23 12:40	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 12:40
Solids:	88.78	Preparation:	EPA 1633 Prep	Initial/Final:	5 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.199	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.225	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.225	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.206	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.225	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.248		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.225	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.225	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.225	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.225	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.225	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.225	U	
2355-31-9	N-MeFOSAA	1	0.225	U	R
2991-50-6	N-EtFOSAA	1	0.225	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.451	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.225	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.225	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.217	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.856	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.865	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.901	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.401	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.451	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.451	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.451	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.212	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.845	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.901	U	
763051-92-9	11CL-PF3OUdS	1	0.852	U	
756426-58-1	9CL-PF3ONS	1	0.843	U	UJ
919005-14-4	ADONA	1	0.852	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.219	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.216	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.13	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.63	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.63	U	
24448-09-7	N-MeFOSE	1	2.25	U	
31506-32-8	N-MeFOSA	1	0.225	U	
1691-99-2	N-EtFOSE	1	2.25	U	
4151-50-2	N-EtFOSA	1	0.225	U	

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-01	File ID:	QQQ32443.d
Sampled:	11/09/23 12:40	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 12:40
Solids:	88.78	Preparation:	EPA 1633 Prep	Initial/Final:	5 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.19	1.56	71.3	25 - 150	
M5PFHxA	2.35	2.04	86.7	25 - 150	
M4PFHpA	2.35	2.82	120	25 - 150	
M3PFHxS	2.22	2.56	115	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.35	2.16	92.0	25 - 150	
M6PFDA	1.17	1.23	105	25 - 150	
M7PFUdA	1.17	1.12	96.0	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.17	0.897	76.6	25 - 150	
M2PFTeDA	1.17	0.770	65.7	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.41	0.890	9.47	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.25	2.34	104	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.69	1.34	28.6	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.35	1.58	67.2	10 - 150	
d3-N-MeFOSAA	4.69	3.71	79.1	25 - 150	
d5-N-EtFOSAA	4.69	3.48	74.2	25 - 150	
M2-6:2 FTS	4.46	4.98	112	25 - 200	
M2-8:2 FTS	4.51	6.36	141	25 - 200	
M9PFNA	1.17	1.36	116	25 - 150	
M2-4:2 FTS	4.40	3.11	70.5	25 - 150	
d-N-MeFOSA	2.35	0.965	41.1	25 - 150	
d-N-EtFOSA	2.35	1.19	50.6	25 - 150	
M3HFPO-DA	9.41	8.73	92.8	25 - 150	
d9-N-EtFOSE	23.5	10.3	43.9	25 - 150	
d7-N-MeFOSE	23.5	10.5	44.6	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	35829.6	1.234633	40584.95	1.197917	
MPFDA	14604.27	8.661734	15091.56	8.531983	
MPFHxA	51632.25	5.992667	54241.75	5.93725	
MPFHxS	4433.092	6.926317	4300.236	6.823717	
MPFNA	19012.65	8.1338	19571.79	7.9946	
MPFOA	48006.79	7.5113	49664.82	7.390767	
MPFOS	10850.39	8.160784	10941.12	8.0303	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4876.38	8.12415	5855.833	7.99425	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33265.32	7.510917	40518.92	7.3904	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	29321.05	4.4315	143223.7	4.393917	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	14672.05	1.23235	185940.8	1.195633	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	18172.91	9.503366	29289.49	9.401584	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-01	File ID:	QQQ32443.d
Sampled:	11/09/23 12:40	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 12:40
Solids:	88.78	Preparation:	EPA 1633 Prep	Initial/Final:	5 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4250.82	8.160267	4558.844	8.029767	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11099.16	9.073317	17423.47	8.942317	
M7PFUdA-EIS	23952.97	9.115417	36513.14	8.99485	
M6PFDA-EIS	16476.62	8.661333	20664.99	8.54085	
M5PFHxA-EIS	56221.41	5.991483	84952.7	5.93605	
M4PFHpA-EIS	10771.51	6.825933	12690.81	6.7226	
M3PFHxS-EIS	11043.43	6.9268	12960.85	6.824266	
M3PFBS-EIS	12500.85	5.177983	21142.75	5.141067	
M3-HFPO-DA-EIS	38206.27	6.290767	56503.68	6.225833	
M2PFTeDA-EIS	9236.061	10.14727	14415.43	10.0643	
M2-8-2FTS-EIS	51771.71	8.623466	35273.92	8.493267	
M2-6-2FTS-EIS	28204.2	7.454533	21428.05	7.3337	
M2-4-2FTS-EIS	26262.68	5.925617	35202.32	5.86935	
d9-NEtFOSE-EIS	2437.281	10.0946	5775.148	9.993183	
d7-NMeFOSE-EIS	4707.702	9.846117	10518.61	9.743383	
d5-NEtFOSA-EIS	918.9832	10.135	1715.227	10.0428	
d5-N-EtFOSAA-EIS	21153.17	9.08665	29154.99	8.975233	
d3-NMeFOSA-EIS	1137.483	9.877483	2269.735	9.767	
d3-N-MeFOSAA-EIS	28838.82	8.8547	34986.65	8.7329	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (12-14ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-02	File ID:	QQQ32444.d
Sampled:	11/09/23 12:45	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 12:56
Solids:	85.25	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.206	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.232	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.232	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.213	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.232	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.205	J	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.232	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.232	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.232	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.232	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.232	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.232	U	
2355-31-9	N-MeFOSAA	1	0.232	U	R
2991-50-6	N-EtFOSAA	1	0.232	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.465	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.232	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.232	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.224	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.883	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.892	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.929	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.413	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.465	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.465	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.465	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.218	U	UJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.871	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.929	U	
763051-92-9	11CL-PF3OUdS	1	0.878	U	
756426-58-1	9CL-PF3ONS	1	0.869	U	UJ
919005-14-4	ADONA	1	0.878	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.225	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.223	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.16	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.81	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.81	U	
24448-09-7	N-MeFOSE	1	2.32	U	
31506-32-8	N-MeFOSA	1	0.232	U	
1691-99-2	N-EtFOSE	1	2.32	U	
4151-50-2	N-EtFOSA	1	0.232	U	

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (12-14ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-02	File ID:	QQQ32444.d
Sampled:	11/09/23 12:45	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 12:56
Solids:	85.25	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.25	1.77	78.6	25 - 150	
M5PFHxA	2.42	2.28	94.3	25 - 150	
M4PFHpA	2.42	2.56	106	25 - 150	
M3PFHxS	2.29	3.05	133	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.42	2.34	96.5	25 - 150	
M6PFDA	1.21	1.56	129	25 - 150	
M7PFUdA	1.21	1.18	97.5	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.21	0.983	81.4	25 - 150	
M2PFTeDA	1.21	0.904	74.8	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.70	0.494	5.10	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.32	3.06	132	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.84	1.11	23.0	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.42	1.60	66.1	10 - 150	
d3-N-MeFOSAA	4.84	3.76	77.7	25 - 150	
d5-N-EtFOSAA	4.84	3.39	70.1	25 - 150	
M2-6:2 FTS	4.60	4.35	94.5	25 - 200	
M2-8:2 FTS	4.65	4.94	106	25 - 200	
M9PFNA	1.21	1.31	109	25 - 150	
M2-4:2 FTS	4.54	2.40	52.8	25 - 150	
d-N-MeFOSA	2.42	1.03	42.5	25 - 150	
d-N-EtFOSA	2.42	1.22	50.6	25 - 150	
M3HFPO-DA	9.70	8.88	91.5	25 - 150	
d9-N-EtFOSE	24.2	11.2	46.1	25 - 150	
d7-N-MeFOSE	24.2	12.0	49.6	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	36697.82	1.234633	40584.95	1.197917	
MPFDA	13747.42	8.65245	15091.56	8.531983	
MPFHxA	51466.31	5.983433	54241.75	5.93725	
MPFHxS	4273.815	6.907817	4300.236	6.823717	
MPFNA	21050.75	8.124516	19571.79	7.9946	
MPFOA	47362.31	7.502033	49664.82	7.390767	
MPFOS	10208.24	8.150933	10941.12	8.0303	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5064.664	8.12415	5855.833	7.99425	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34414.95	7.50165	40518.92	7.3904	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	23615.89	4.421484	143223.7	4.393917	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	8089.439	1.23235	185940.8	1.195633	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	18179.08	9.494117	29289.49	9.401584	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (12-14ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-02	File ID:	QQQ32444.d
Sampled:	11/09/23 12:45	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 12:56
Solids:	85.25	Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	5077.356	8.1504	4558.844	8.029767	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10251.25	9.073317	17423.47	8.942317	
M7PFUdA-EIS	22883.4	9.10615	36513.14	8.99485	
M6PFDA-EIS	18997.1	8.652066	20664.99	8.54085	
M5PFHxA-EIS	61045.7	5.991483	84952.7	5.93605	
M4PFHpA-EIS	9448.613	6.80745	12690.81	6.7226	
M3PFHxS-EIS	12277.95	6.908283	12960.85	6.824266	
M3PFBS-EIS	13345.25	5.177967	21142.75	5.141067	
M3-HFPO-DA-EIS	37563.23	6.281517	56503.68	6.225833	
M2PFTeDA-EIS	9897.043	10.13805	14415.43	10.0643	
M2-8-2FTS-EIS	37634.84	8.6142	35273.92	8.493267	
M2-6-2FTS-EIS	23009.36	7.445267	21428.05	7.3337	
M2-4-2FTS-EIS	18965.73	5.916383	35202.32	5.86935	
d9-NEtFOSE-EIS	2374.342	10.08538	5775.148	9.993183	
d7-NMeFOSE-EIS	4917.173	9.8369	10518.61	9.743383	
d5-NEtFOSA-EIS	871.8042	10.12578	1715.227	10.0428	
d5-N-EtFOSAA-EIS	18818.7	9.077383	29154.99	8.975233	
d3-NMeFOSA-EIS	1101.975	9.86825	2269.735	9.767	
d3-N-MeFOSAA-EIS	26633.06	8.8547	34986.65	8.7329	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: QQQ32445.d

Sampled: 11/09/23 12:51 Prepared: 11/20/23 09:47 Analyzed: 11/21/23 13:12

Solids: 68.10 Preparation: EPA 1633 Prep Initial/Final: 5.03 g / 5 mL

Batch: BK31249 Sequence: S3K2163 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.258	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.292	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.292	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.267	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.292	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.272	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.292	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.292	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.292	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.292	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.292	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.292	U	
2355-31-9	N-MeFOSAA	1	~~0.292~~	U	R
2991-50-6	N-EtFOSAA	1	0.292	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.584	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.292	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.292	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.282	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.11	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.12	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.17	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.520	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.584	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.584	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.584	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.274	U	UJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.09	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.17	U	
763051-92-9	11CL-PF3OUdS	1	1.10	U	
756426-58-1	9CL-PF3ONS	1	1.09	U	UJ
919005-14-4	ADONA	1	1.10	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.283	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.280	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.46	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.30	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.30	U	
24448-09-7	N-MeFOSE	1	2.92	U	
31506-32-8	N-MeFOSA	1	0.292	U	
1691-99-2	N-EtFOSE	1	2.92	U	
4151-50-2	N-EtFOSA	1	0.292	U	

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: QQQ32445.d

Sampled: 11/09/23 12:51 Prepared: 11/20/23 09:47 Analyzed: 11/21/23 13:12

Solids: 68.10 Preparation: EPA 1633 Prep Initial/Final: 5.03 g / 5 mL

Batch: BK31249 Sequence: S3K2163 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.83	1.52	53.8	25 - 150	
M5PFHxA	3.04	2.16	70.8	25 - 150	
M4PFHpA	3.04	3.55	117	25 - 150	
M3PFHxS	2.88	3.49	121	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.04	3.09	101	25 - 150	
M6PFDA	1.52	1.67	110	25 - 150	
M7PFUdA	1.52	1.61	106	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.52	1.31	86.1	25 - 150	
M2PFTeDA	1.52	1.04	68.5	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.2	0.264	2.16	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.91	3.06	105	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.08	0.626	10.3	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.04	2.22	73.1	10 - 150	
d3-N-MeFOSAA	6.08	4.62	76.0	25 - 150	
d5-N-EtFOSAA	6.08	5.20	85.6	25 - 150	
M2-6:2 FTS	5.78	4.90	84.8	25 - 200	
M2-8:2 FTS	5.84	5.19	88.8	25 - 200	
M9PFNA	1.52	1.69	111	25 - 150	
M2-4:2 FTS	5.71	3.26	57.1	25 - 150	
d-N-MeFOSA	3.04	1.50	49.3	25 - 150	
d-N-EtFOSA	3.04	1.67	54.7	25 - 150	
M3HFPO-DA	12.2	8.36	68.6	25 - 150	
d9-N-EtFOSE	30.4	14.9	49.0	25 - 150	
d7-N-MeFOSE	30.4	15.1	49.5	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	35348.02	1.216283	40584.95	1.197917	
MPFDA	14060.75	8.661734	15091.56	8.531983	
MPFHxA	51008.96	5.992667	54241.75	5.93725	
MPFHxS	4157.302	6.917067	4300.236	6.823717	
MPFNA	20969.57	8.1338	19571.79	7.9946	
MPFOA	42202.22	7.5113	49664.82	7.390767	
MPFOS	10171.39	8.160784	10941.12	8.0303	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5171.297	8.12415	5855.833	7.99425	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	32246.8	7.510917	40518.92	7.3904	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	10422.13	4.421484	143223.7	4.393917	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	3315.092	1.223167	185940.8	1.195633	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	19677.15	9.503366	29289.49	9.401584	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (14-18ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-03	File ID:	QQQ32445.d
Sampled:	11/09/23 12:51	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 13:12
Solids:	68.10	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4025.863	8.160267	4558.844	8.029767	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	11307.72	9.082583	17423.47	8.942317	
M7PFUdA-EIS	25463.58	9.10615	36513.14	8.99485	
M6PFDA-EIS	16615.25	8.661333	20664.99	8.54085	
M5PFHxA-EIS	45447.37	5.991483	84952.7	5.93605	
M4PFHpA-EIS	10333.31	6.816683	12690.81	6.7226	
M3PFHxS-EIS	10876.74	6.917533	12960.85	6.824266	
M3PFBS-EIS	8840.851	5.177967	21142.75	5.141067	
M3-HFPO-DA-EIS	27896.39	6.281517	56503.68	6.225833	
M2PFTeDA-EIS	9273.319	10.14727	14415.43	10.0643	
M2-8-2FTS-EIS	30572.49	8.623466	35273.92	8.493267	
M2-6-2FTS-EIS	20094.02	7.445267	21428.05	7.3337	
M2-4-2FTS-EIS	19935.87	5.916383	35202.32	5.86935	
d9-NEtFOSE-EIS	2545.135	10.08538	5775.148	9.993183	
d7-NMeFOSE-EIS	4912.154	9.8369	10518.61	9.743383	
d5-NEtFOSA-EIS	172.3376	10.01515	1715.227	10.0428	
d5-N-EtFOSAA-EIS	22941.54	9.08665	29154.99	8.975233	
d3-NMeFOSA-EIS	1290.395	9.877483	2269.735	9.767	
d3-N-MeFOSAA-EIS	25970.97	8.8547	34986.65	8.7329	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (27.5-30ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-04	File ID:	QQQ32446.d
Sampled:	11/09/23 13:05	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 13:28
Solids:	85.37	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.204	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.230	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.230	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.211	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.230	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.214	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.230	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.230	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.230	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.230	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.230	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.230	U	
2355-31-9	N-MeFOSAA	1	0.230	U	R
2991-50-6	N-EtFOSAA	1	0.230	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.460	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.230	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.230	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.222	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.875	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.884	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.134	J	J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.410	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.460	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.460	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.460	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.216	U	UJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.863	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.921	U	
763051-92-9	11CL-PF3OUdS	1	0.870	U	
756426-58-1	9CL-PF3ONS	1	0.861	U	UJ
919005-14-4	ADONA	1	0.870	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.223	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.221	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.15	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.75	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.75	U	
24448-09-7	N-MeFOSE	1	2.30	U	
31506-32-8	N-MeFOSA	1	0.230	U	
1691-99-2	N-EtFOSE	1	2.30	U	
4151-50-2	N-EtFOSA	1	0.230	U	

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (27.5-30ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-04	File ID:	QQQ32446.d
Sampled:	11/09/23 13:05	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 13:28
Solids:	85.37	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.23	1.62	72.4	25 - 150	
M5PFHxA	2.40	2.22	92.6	25 - 150	
M4PFHpA	2.40	3.13	130	25 - 150	
M3PFHxS	2.27	2.93	129	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.40	2.26	94.1	25 - 150	
M6PFDA	1.20	1.42	119	25 - 150	
M7PFUdA	1.20	1.43	120	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.20	1.12	93.6	25 - 150	
M2PFTeDA	1.20	0.768	64.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.61	0.267	2.77	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.30	1.78	77.3	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.79	0.686	14.3	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.40	1.68	69.9	10 - 150	
d3-N-MeFOSAA	4.79	2.59	54.0	25 - 150	
d5-N-EtFOSAA	4.79	2.70	56.4	25 - 150	
M2-6:2 FTS	4.56	3.63	79.6	25 - 200	
M2-8:2 FTS	4.60	3.33	72.4	25 - 200	
M9PFNA	1.20	1.34	112	25 - 150	
M2-4:2 FTS	4.50	3.27	72.7	25 - 150	
d-N-MeFOSA	2.40	1.29	53.7	25 - 150	
d-N-EtFOSA	2.40	1.28	53.5	25 - 150	
M3HFPO-DA	9.61	9.36	97.5	25 - 150	
d9-N-EtFOSE	24.0	10.4	43.2	25 - 150	
d7-N-MeFOSE	24.0	11.7	48.7	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	35257.59	1.216283	40584.95	1.197917	
MPFDA	11365.83	8.661734	15091.56	8.531983	
MPFHxA	48065.42	5.992667	54241.75	5.93725	
MPFHxS	3752.299	6.917067	4300.236	6.823717	
MPFNA	18169.82	8.124516	19571.79	7.9946	
MPFOA	43741.56	7.5113	49664.82	7.390767	
MPFOS	10167.53	8.160784	10941.12	8.0303	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4513.625	8.12415	5855.833	7.99425	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	30984.01	7.510917	40518.92	7.3904	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	13655.53	4.421484	143223.7	4.393917	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	4228.716	1.223167	185940.8	1.195633	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	17279.48	9.503366	29289.49	9.401584	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP7 (27.5-30ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-04	File ID:	QQQ32446.d
Sampled:	11/09/23 13:05	Prepared:	11/20/23 09:47	Analyzed:	11/21/23 13:28
Solids:	85.37	Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL
Batch:	BK31249	Sequence:	S3K2163	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2959.223	8.160267	4558.844	8.029767	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10814.84	9.082583	17423.47	8.942317	
M7PFUdA-EIS	23374.35	9.10615	36513.14	8.99485	
M6PFDA-EIS	14461.62	8.652066	20664.99	8.54085	
M5PFHxA-EIS	56006.29	5.991483	84952.7	5.93605	
M4PFHpA-EIS	10872.74	6.816683	12690.81	6.7226	
M3PFHxS-EIS	10443.69	6.917533	12960.85	6.824266	
M3PFBS-EIS	10750.75	5.177967	21142.75	5.141067	
M3-HFPO-DA-EIS	37343.47	6.281517	56503.68	6.225833	
M2PFTeDA-EIS	7017.578	10.13805	14415.43	10.0643	
M2-8-2FTS-EIS	22504.57	8.623466	35273.92	8.493267	
M2-6-2FTS-EIS	17014.54	7.445267	21428.05	7.3337	
M2-4-2FTS-EIS	22911.58	5.916383	35202.32	5.86935	
d9-NEtFOSE-EIS	2237.583	10.08538	5775.148	9.993183	
d7-NMeFOSE-EIS	4838.346	9.8369	10518.61	9.743383	
d5-NEtFOSA-EIS	919.2513	10.12578	1715.227	10.0428	
d5-N-EtFOSAA-EIS	15060.82	9.08665	29154.99	8.975233	
d3-NMeFOSA-EIS	1403.356	9.86825	2269.735	9.767	
d3-N-MeFOSAA-EIS	18446.99	8.8547	34986.65	8.7329	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

Field Blank PFAS

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Water Laboratory ID: 23K0753-06 File ID: QQQ32405.d

Sampled: 11/09/23 15:00 Prepared: 11/19/23 15:05 Analyzed: 11/20/23 06:31

Solids: Preparation: EPA 1633 Prep Initial/Final: 539.82 mL / 5 mL

Batch: BK31244 Sequence: S3K1906 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.64	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	1.85	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	1.85	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.70	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	1.85	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	1.72	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	1.85	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	1.85	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.85	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.85	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.85	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.85	U	
2355-31-9	N-MeFOSAA	1	1.85	U	
2991-50-6	N-EtFOSAA	1	1.85	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	3.70	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.85	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.77	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.79	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.04	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.11	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	7.41	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.30	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.70	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.70	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.70	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.74	U	UJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	6.95	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	7.41	U	
763051-92-9	11CL-PF3OUdS	1	7.00	U	
756426-58-1	9CL-PF3ONS	1	6.93	U	UJ
919005-14-4	ADONA	1	7.00	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.80	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.78	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.63	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	23.2	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	23.2	U	
24448-09-7	N-MeFOSE	1	18.5	U	
31506-32-8	N-MeFOSA	1	1.85	U	
1691-99-2	N-EtFOSE	1	18.5	U	
4151-50-2	N-EtFOSA	1	1.85	U	

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

Field Blank PFAS

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0753

Client: Touchstone Environmental Geology, PC | Project: 220293 100 East 149th Street Bronx, NY

Matrix: Water | Laboratory ID: 23K0753-06 | File ID: QQQ32405.d

Sampled: 11/09/23 15:00 | Prepared: 11/19/23 15:05 | Analyzed: 11/20/23 06:31

Solids: | Preparation: EPA 1633 Prep | Initial/Final: 539.82 mL / 5 mL

Batch: BK31244 | Sequence: S3K1906 | Calibration: SJ30009 | Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	18.0	16.0	88.8	25 - 150	
M5PFHxA	19.3	20.7	107	25 - 150	
M4PFHpA	19.3	31.8	165	25 - 150	*
M3PFHxS	18.3	28.0	153	25 - 150	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	19.3	24.6	128	25 - 150	
M6PFDA	9.63	13.8	143	25 - 150	
M7PFUdA	9.63	12.7	132	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	9.63	11.8	123	25 - 150	
M2PFTeDA	9.63	5.51	57.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	77.3	0.483	0.625	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	18.5	23.4	126	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	38.6	2.67	6.93	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	19.3	20.0	103	10 - 150	
d3-N-MeFOSAA	38.6	29.0	75.1	25 - 150	
d5-N-EtFOSAA	38.6	30.7	79.5	25 - 150	
M2-6:2 FTS	36.7	33.6	91.7	25 - 200	
M2-8:2 FTS	37.0	31.3	84.4	25 - 200	
M9PFNA	9.63	13.9	144	25 - 150	
M2-4:2 FTS	36.2	31.8	87.9	25 - 150	
d-N-MeFOSA	19.3	16.4	84.9	25 - 150	
d-N-EtFOSA	19.3	10.8	56.1	25 - 150	
M3HFPO-DA	77.3	87.1	113	25 - 150	
d9-N-EtFOSE	193	62.8	32.5	25 - 150	
d7-N-MeFOSE	193	89.2	46.2	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	32447.32	1.170383	35889.34	1.1612	
MPFDA	12823.4	8.671	14277.08	8.680266	
MPFHxA	45960.62	6.0019	50385.21	6.0019	
MPFHxS	3601.706	6.926317	3797.837	6.935583	
MPFNA	18170.02	8.1338	20377.19	8.143066	
MPFOA	42035.8	7.5113	46007.57	7.53015	
MPFOS	9133.594	8.160784	9847.305	8.179367	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5813.096	8.133433	5503.114	8.152	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	40445.64	7.520184	38607.55	7.5298	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	6323.479	4.375533	130337	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	876.7026	1.168083	171136.8	1.1589	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	25464.58	9.54995	28195.52	9.531466	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

Field Blank PFAS

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Water Laboratory ID: 23K0753-06 File ID: QQQ32405.d

Sampled: 11/09/23 15:00 Prepared: 11/19/23 15:05 Analyzed: 11/20/23 06:31

Solids: Preparation: EPA 1633 Prep Initial/Final: 539.82 mL / 5 mL

Batch: BK31244 Sequence: S3K1906 Calibration: SJ30009 Instrument: LCQQQ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4348.919	8.160267	4529.87	8.178833	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	14375.35	9.1291	13739.78	9.1291	
M7PFUdA-EIS	28870.9	9.133984	32752.92	9.133984	
M6PFDA-EIS	19614.1	8.6706	20225.99	8.679867	
M5PFHxA-EIS	61833.77	6.000717	77449.75	6.000717	
M4PFHpA-EIS	13133.18	6.825933	12687.13	6.825933	
M3PFHxS-EIS	11899.74	6.9268	12052.68	6.93605	
M3PFBS-EIS	12653.99	5.16875	20391.92	5.16875	
M3-HFPO-DA-EIS	41279.55	6.290767	50836.76	6.300034	
M2PFTeDA-EIS	7052.768	10.21183	16512.14	10.1842	
M2-8-2FTS-EIS	25160.7	8.623466	26647.13	8.642	
M2-6-2FTS-EIS	18812.9	7.454533	20562.89	7.4638	
M2-4-2FTS-EIS	26604.14	5.925617	32520.83	5.925617	
d9-NEtFOSE-EIS	1512.539	10.17808	4558.606	10.14992	
d7-NMeFOSE-EIS	4083.836	9.91995	9539.181	9.9015	
d5-NEtFOSA-EIS	774.6689	10.21748	1645.493	10.18985	
d5-N-EtFOSAA-EIS	19073.1	9.11445	23592.22	9.11445	
d3-NMeFOSA-EIS	1993.932	9.952333	2238.896	9.923616	
d3-N-MeFOSAA-EIS	23041.89	8.873266	30311.98	8.88255	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: PEST

METHOD: EPA 8081B

DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/18/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID: P600426376.D

Sampled: 11/09/23 12:40 Prepared: 11/16/23 08:29 Analyzed: 11/17/23 17:54

Solids: 88.78 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31064 Sequence: S3K1747 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.85	U	
72-55-9	4,4'-DDE	5	1.85	U	UJ
50-29-3	4,4'-DDT	5	1.88	D	J
309-00-2	Aldrin	5	1.85	U	
319-84-6	alpha-BHC	5	1.85	U	
5103-71-9	alpha-Chlordane	5	1.85	U	
319-85-7	beta-BHC	5	1.85	U	
57-74-9	Chlordane, total	5	37.0	U	
319-86-8	delta-BHC	5	1.85	U	
60-57-1	Dieldrin	5	1.85	U	
959-98-8	Endosulfan I	5	1.85	U	
33213-65-9	Endosulfan II	5	1.85	U	
1031-07-8	Endosulfan sulfate	5	1.85	U	
72-20-8	Endrin	5	1.85	U	
7421-93-4	Endrin aldehyde	5	1.85	U	
53494-70-5	Endrin ketone	5	1.85	U	
58-89-9	gamma-BHC (Lindane)	5	1.85	U	
5566-34-7	gamma-Chlordane	5	1.85	U	
76-44-8	Heptachlor	5	1.85	U	
1024-57-3	Heptachlor epoxide	5	1.85	U	
72-43-5	Methoxychlor	5	9.26	U	
8001-35-2	Toxaphene	5	93.7	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	74.8	44.2	59.1	30 - 150	
Tetrachloro-m-xylene	74.8	52.0	69.4	30 - 150	

* Values outside of QC limits

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID: P600426377.D

Sampled: 11/09/23 12:45 Prepared: 11/16/23 08:29 Analyzed: 11/17/23 18:16

Solids: 85.25 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31064 Sequence: S3K1747 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.93	U	
72-55-9	4,4'-DDE	5	1.93	U	UJ
50-29-3	4,4'-DDT	5	1.93	U	
309-00-2	Aldrin	5	1.93	U	
319-84-6	alpha-BHC	5	1.93	U	
5103-71-9	alpha-Chlordane	5	1.93	U	
319-85-7	beta-BHC	5	1.93	U	
57-74-9	Chlordane, total	5	38.6	U	
319-86-8	delta-BHC	5	1.93	U	
60-57-1	Dieldrin	5	1.93	U	
959-98-8	Endosulfan I	5	1.93	U	
33213-65-9	Endosulfan II	5	1.93	U	
1031-07-8	Endosulfan sulfate	5	1.93	U	
72-20-8	Endrin	5	1.93	U	
7421-93-4	Endrin aldehyde	5	1.93	U	
53494-70-5	Endrin ketone	5	1.93	U	
58-89-9	gamma-BHC (Lindane)	5	1.93	U	
5566-34-7	gamma-Chlordane	5	1.93	U	
76-44-8	Heptachlor	5	1.93	U	
1024-57-3	Heptachlor epoxide	5	1.93	U	
72-43-5	Methoxychlor	5	9.65	U	
8001-35-2	Toxaphene	5	97.6	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	77.9	41.2	52.8	30 - 150	
Tetrachloro-m-xylene	77.9	62.9	80.8	30 - 150	

* Values outside of QC limits

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: P600426378.D

Sampled: 11/09/23 12:51 Prepared: 11/16/23 08:29 Analyzed: 11/17/23 18:48

Solids: 68.10 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31064 Sequence: S3K1747 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
72-54-8	4,4'-DDD	5	2.41	U
72-55-9	4,4'-DDE	5	2.41	U
50-29-3	4,4'-DDT	5	2.41	U
309-00-2	Aldrin	5	2.41	U
319-84-6	alpha-BHC	5	2.41	U
5103-71-9	alpha-Chlordane	5	2.41	U
319-85-7	beta-BHC	5	2.41	U
57-74-9	Chlordane, total	5	48.3	U
319-86-8	delta-BHC	5	2.41	U
60-57-1	Dieldrin	5	2.41	U
959-98-8	Endosulfan I	5	2.41	U
33213-65-9	Endosulfan II	5	2.41	U
1031-07-8	Endosulfan sulfate	5	2.41	U
72-20-8	Endrin	5	2.41	U
7421-93-4	Endrin aldehyde	5	2.41	U
53494-70-5	Endrin ketone	5	2.41	U
58-89-9	gamma-BHC (Lindane)	5	2.41	U
5566-34-7	gamma-Chlordane	5	2.41	U
76-44-8	Heptachlor	5	2.41	U
1024-57-3	Heptachlor epoxide	5	2.41	U
72-43-5	Methoxychlor	5	12.1	U
8001-35-2	Toxaphene	5	122	U

UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	97.6	76.8	78.7	30 - 150	
Tetrachloro-m-xylene	97.6	84.2	86.3	30 - 150	

* Values outside of QC limits

MKP 2/5/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID: P600426379.D

Sampled: 11/09/23 13:05 Prepared: 11/16/23 08:29 Analyzed: 11/17/23 19:10

Solids: 85.37 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31064 Sequence: S3K1747 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.93	U	
72-55-9	4,4'-DDE	5	1.93	U	UJ
50-29-3	4,4'-DDT	5	1.93	U	
309-00-2	Aldrin	5	1.93	U	
319-84-6	alpha-BHC	5	1.93	U	
5103-71-9	alpha-Chlordane	5	1.93	U	
319-85-7	beta-BHC	5	1.93	U	
57-74-9	Chlordane, total	5	38.5	U	
319-86-8	delta-BHC	5	1.93	U	
60-57-1	Dieldrin	5	1.93	U	
959-98-8	Endosulfan I	5	1.93	U	
33213-65-9	Endosulfan II	5	1.93	U	
1031-07-8	Endosulfan sulfate	5	1.93	U	
72-20-8	Endrin	5	1.93	U	
7421-93-4	Endrin aldehyde	5	1.93	U	
53494-70-5	Endrin ketone	5	1.93	U	
58-89-9	gamma-BHC (Lindane)	5	1.93	U	
5566-34-7	gamma-Chlordane	5	1.93	U	
76-44-8	Heptachlor	5	1.93	U	
1024-57-3	Heptachlor epoxide	5	1.93	U	
72-43-5	Methoxychlor	5	9.63	U	
8001-35-2	Toxaphene	5	97.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	77.8	70.0	89.9	30 - 150	
Tetrachloro-m-xylene	77.8	57.0	73.3	30 - 150	

* Values outside of QC limits

MKP 2/5/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: ARO

METHOD: EPA 8082A

No data validation qualifiers were added

MKP 2/5/2024

DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/18/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP7 (0-2.5ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-01	File ID:	P1133546.D
Sampled:	11/09/23 12:40	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 17:58
Solids:	88.78	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K2049	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0187	U
11104-28-2	Aroclor 1221	1	0.0187	U
11141-16-5	Aroclor 1232	1	0.0187	U
53469-21-9	Aroclor 1242	1	0.0187	U
12672-29-6	Aroclor 1248	1	0.0187	U
11097-69-1	Aroclor 1254	1	0.0187	U
11096-82-5	Aroclor 1260	1	0.0187	U
1336-36-3	Total PCBs	1	0.0187	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0748	0.0486	65.0	30 - 140	
Decachlorobiphenyl	0.0748	0.0524	70.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP7 (12-14ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-02	File ID:	P1133547.D
Sampled:	11/09/23 12:45	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 18:12
Solids:	85.25	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K2049	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0195	U
11104-28-2	Aroclor 1221	1	0.0195	U
11141-16-5	Aroclor 1232	1	0.0195	U
53469-21-9	Aroclor 1242	1	0.0195	U
12672-29-6	Aroclor 1248	1	0.0195	U
11097-69-1	Aroclor 1254	1	0.0195	U
11096-82-5	Aroclor 1260	1	0.0195	U
1336-36-3	Total PCBs	1	0.0195	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0779	0.0413	53.0	30 - 140	
Decachlorobiphenyl	0.0779	0.0464	59.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP7 (14-18ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-03	File ID:	P1133548.D
Sampled:	11/09/23 12:51	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 18:54
Solids:	68.10	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K2049	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0244	U
11104-28-2	Aroclor 1221	1	0.0244	U
11141-16-5	Aroclor 1232	1	0.0244	U
53469-21-9	Aroclor 1242	1	0.0244	U
12672-29-6	Aroclor 1248	1	0.0244	U
11097-69-1	Aroclor 1254	1	0.0244	U
11096-82-5	Aroclor 1260	1	0.0244	U
1336-36-3	Total PCBs	1	0.0244	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0976	0.0654	67.0	30 - 140	
Decachlorobiphenyl	0.0976	0.0771	79.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP7 (27.5-30ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0753
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0753-04	File ID:	P1133549.D
Sampled:	11/09/23 13:05	Prepared:	11/16/23 08:29	Analyzed:	11/17/23 19:08
Solids:	85.37	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31064	Sequence:	S3K2049	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0195	U
11104-28-2	Aroclor 1221	1	0.0195	U
11141-16-5	Aroclor 1232	1	0.0195	U
53469-21-9	Aroclor 1242	1	0.0195	U
12672-29-6	Aroclor 1248	1	0.0195	U
11097-69-1	Aroclor 1254	1	0.0195	U
11096-82-5	Aroclor 1260	1	0.0195	U
1336-36-3	Total PCBs	1	0.0195	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0778	0.0564	72.5	30 - 140	
Decachlorobiphenyl	0.0778	0.0654	84.0	30 - 140	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: METALS

METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/14/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID: QBICP2-111723ARE_1-065

Sampled: 11/09/23 12:40 Prepared: 11/13/23 17:59 Analyzed: 11/17/23 13:02

Solids: 88.78 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30825 Sequence: S3K2002 Calibration: 11/17/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	7520	1		EPA 6010D	
7440-36-0	Antimony	2.35	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	5.37	1		EPA 6010D	
7440-39-3	Barium	130	1		EPA 6010D	
7440-41-7	Beryllium	0.047	1	U	EPA 6010D	
7440-43-9	Cadmium	0.817	1		EPA 6010D	
7440-70-2	Calcium	48200	1	B	EPA 6010D	
7440-47-3	Chromium	26.7	1		EPA 6010D	
7440-48-4	Cobalt	5.63	1		EPA 6010D	
7440-50-8	Copper	49.4	1		EPA 6010D	
7439-89-6	Iron	15000	1		EPA 6010D	
7439-92-1	Lead	277	1		EPA 6010D	
7439-95-4	Magnesium	21600	1		EPA 6010D	
7439-96-5	Manganese	225	1		EPA 6010D	
7440-02-0	Nickel	19.1	1		EPA 6010D	
7440-09-7	Potassium	1530	1		EPA 6010D	
7782-49-2	Selenium	2.35	1	U	EPA 6010D	
7440-22-4	Silver	0.473	1	U	EPA 6010D	
7440-23-5	Sodium	1290	1		EPA 6010D	J+
7440-28-0	Thallium	2.35	1	U	EPA 6010D	
7440-62-2	Vanadium	39.3	1		EPA 6010D	
7440-66-6	Zinc	63.5	1		EPA 6010D	J+

MKP 2/5/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID: QBICP2-111723ARE_1-066

Sampled: 11/09/23 12:45 Prepared: 11/13/23 17:59 Analyzed: 11/17/23 13:05

Solids: 85.25 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30825 Sequence: S3K2002 Calibration: 11/17/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	9870	1		EPA 6010D	
7440-36-0	Antimony	2.44	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	5.08	1		EPA 6010D	
7440-39-3	Barium	91.9	1		EPA 6010D	
7440-41-7	Beryllium	0.049	1	U	EPA 6010D	
7440-43-9	Cadmium	0.293	1	U	EPA 6010D	
7440-70-2	Calcium	19200	1	B	EPA 6010D	
7440-47-3	Chromium	18.3	1		EPA 6010D	
7440-48-4	Cobalt	8.45	1		EPA 6010D	
7440-50-8	Copper	89.3	1		EPA 6010D	
7439-89-6	Iron	19300	1		EPA 6010D	
7439-92-1	Lead	83.5	1		EPA 6010D	
7439-95-4	Magnesium	6370	1		EPA 6010D	
7439-96-5	Manganese	233	1		EPA 6010D	
7440-02-0	Nickel	20.0	1		EPA 6010D	
7440-09-7	Potassium	3320	1		EPA 6010D	
7782-49-2	Selenium	3.19	1		EPA 6010D	
7440-22-4	Silver	0.493	1	U	EPA 6010D	
7440-23-5	Sodium	463	1		EPA 6010D	J+
7440-28-0	Thallium	2.44	1	U	EPA 6010D	
7440-62-2	Vanadium	36.1	1		EPA 6010D	
7440-66-6	Zinc	43.1	1		EPA 6010D	J+

MKP 2/5/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: QBICP2-111723ARE_1-067

Sampled: 11/09/23 12:51 Prepared: 11/13/23 17:59 Analyzed: 11/17/23 13:08

Solids: 68.10 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30825 Sequence: S3K2002 Calibration: 11/17/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	10800	1		EPA 6010D	
7440-36-0	Antimony	3.06	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	10.4	1		EPA 6010D	
7440-39-3	Barium	195	1		EPA 6010D	
7440-41-7	Beryllium	0.165	1		EPA 6010D	
7440-43-9	Cadmium	0.367	1	U	EPA 6010D	
7440-70-2	Calcium	7270	1	B	EPA 6010D	
7440-47-3	Chromium	26.0	1		EPA 6010D	
7440-48-4	Cobalt	8.40	1		EPA 6010D	
7440-50-8	Copper	252	1		EPA 6010D	
7439-89-6	Iron	16800	1		EPA 6010D	
7439-92-1	Lead	301	1		EPA 6010D	
7439-95-4	Magnesium	2000	1		EPA 6010D	
7439-96-5	Manganese	348	1		EPA 6010D	
7440-02-0	Nickel	19.7	1		EPA 6010D	
7440-09-7	Potassium	1190	1		EPA 6010D	
7782-49-2	Selenium	4.96	1		EPA 6010D	
7440-22-4	Silver	0.617	1	U	EPA 6010D	
7440-23-5	Sodium	605	1		EPA 6010D	J+
7440-28-0	Thallium	3.06	1	U	EPA 6010D	
7440-62-2	Vanadium	37.3	1		EPA 6010D	
7440-66-6	Zinc	62.8	1		EPA 6010D	J+

MKP 2/5/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID: QBICP2-111723ARE_1-068

Sampled: 11/09/23 13:05 Prepared: 11/13/23 17:59 Analyzed: 11/17/23 13:11

Solids: 85.37 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK30825 Sequence: S3K2002 Calibration: 11/17/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	5750	1		EPA 6010D	
7440-36-0	Antimony	2.44	1	U	EPA 6010D	UJ
7440-38-2	Arsenic	1.46	1	U	EPA 6010D	
7440-39-3	Barium	43.5	1		EPA 6010D	
7440-41-7	Beryllium	0.049	1	U	EPA 6010D	
7440-43-9	Cadmium	0.293	1	U	EPA 6010D	
7440-70-2	Calcium	119000	1	B	EPA 6010D	
7440-47-3	Chromium	10.5	1		EPA 6010D	
7440-48-4	Cobalt	4.70	1		EPA 6010D	
7440-50-8	Copper	10.7	1		EPA 6010D	
7439-89-6	Iron	7680	1		EPA 6010D	
7439-92-1	Lead	1.75	1		EPA 6010D	
7439-95-4	Magnesium	75800	1		EPA 6010D	
7439-96-5	Manganese	433	1		EPA 6010D	
7440-02-0	Nickel	8.39	1		EPA 6010D	
7440-09-7	Potassium	1780	1		EPA 6010D	
7782-49-2	Selenium	2.44	1	U	EPA 6010D	
7440-22-4	Silver	0.492	1	U	EPA 6010D	
7440-23-5	Sodium	134	1		EPA 6010D	J+
7440-28-0	Thallium	2.44	1	U	EPA 6010D	
7440-62-2	Vanadium	15.7	1		EPA 6010D	
7440-66-6	Zinc	25.4	1		EPA 6010D	J+

MKP 2/5/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: HG

METHOD: EPA 7473

No data validation qualifiers were added

MKP 2/5/2024

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/14/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID: QBHg-DMA-01 111723a

Sampled: 11/09/23 12:40 Prepared: 11/17/23 08:29 Analyzed: 11/18/23 13:35

Solids: 88.78 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31137 Sequence: S3K1741 Calibration: 11/18/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.287	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID: QBHg-DMA-01 111723a

Sampled: 11/09/23 12:45 Prepared: 11/17/23 08:29 Analyzed: 11/18/23 13:35

Solids: 85.25 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31137 Sequence: S3K1741 Calibration: 11/18/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.170	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID: QBHg-DMA-01 111723a

Sampled: 11/09/23 12:51 Prepared: 11/17/23 08:29 Analyzed: 11/18/23 13:35

Solids: 68.10 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31137 Sequence: S3K1741 Calibration: 11/18/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	4.53	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID: QBHg-DMA-01 111723a

Sampled: 11/09/23 13:05 Prepared: 11/17/23 08:29 Analyzed: 11/18/23 13:35

Solids: 85.37 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31137 Sequence: S3K1741 Calibration: 11/18/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0351	1	U	EPA 7473

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: WET

METHOD: EPA 7196A

No data validation qualifiers were added

MKP 2/5/2024

DATA PACKAGE COVER PAGE

EPA 7196A

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

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Signature:

Name: Cassie L. Mosher

Date: 12/14/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID:

Sampled: 11/09/23 12:40 Prepared: 11/16/23 09:31 Analyzed: 11/16/23 16:58

Solids: 88.78 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31069 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.563	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID:

Sampled: 11/09/23 12:45 Prepared: 11/16/23 09:31 Analyzed: 11/16/23 16:58

Solids: 85.25 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31069 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	1.31	1		EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID:

Sampled: 11/09/23 12:51 Prepared: 11/16/23 09:31 Analyzed: 11/16/23 16:58

Solids: 68.10 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31069 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.734	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID:

Sampled: 11/09/23 13:05 Prepared: 11/16/23 09:31 Analyzed: 11/16/23 16:58

Solids: 85.37 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31069 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.586	1	U	EPA 7196A

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: WET

METHOD: EPA 9014/9010C

No data validation qualifiers were added

MKP 2/5/2024

DATA PACKAGE COVER PAGE

EPA 9014/9010C

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

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Signature:

Name: Cassie L. Mosher

Date: 12/14/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID:

Sampled: 11/09/23 12:40 Prepared: 11/16/23 09:44 Analyzed: 11/16/23 16:46

Solids: 88.78 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31070 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.563	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID:

Sampled: 11/09/23 12:45 Prepared: 11/16/23 09:44 Analyzed: 11/16/23 16:46

Solids: 85.25 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31070 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	10.9	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID:

Sampled: 11/09/23 12:51 Prepared: 11/16/23 09:44 Analyzed: 11/16/23 16:46

Solids: 68.10 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31070 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.734	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID:

Sampled: 11/09/23 13:05 Prepared: 11/16/23 09:44 Analyzed: 11/16/23 16:46

Solids: 85.37 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31070 Sequence: Calibration: 11/16/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.586	1	U	EPA 9014/9010C

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0753

CLASS: WET

METHOD: SM 2540G

No data validation qualifiers were added

MKP 2/5/2024

DATA PACKAGE COVER PAGE

SM 2540G

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP7 (0-2.5ft)	23K0753-01
23SP7 (12-14ft)	23K0753-02
23SP7 (14-18ft)	23K0753-03
23SP7 (27.5-30ft)	23K0753-04

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Signature:
Name: Cassie L. Mosher

Date: 12/14/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-01 File ID:

Sampled: 11/09/23 12:40 Prepared: 11/15/23 10:20 Analyzed: 11/15/23 14:40

Solids: 88.78 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30986 Sequence: Calibration: 11/15/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	88.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP7 (12-14ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-02 File ID:

Sampled: 11/09/23 12:45 Prepared: 11/15/23 10:20 Analyzed: 11/15/23 14:40

Solids: 85.25 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30986 Sequence: Calibration: 11/15/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	85.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP7 (14-18ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-03 File ID:

Sampled: 11/09/23 12:51 Prepared: 11/15/23 10:20 Analyzed: 11/15/23 14:40

Solids: 68.10 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30986 Sequence: Calibration: 11/15/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	68.1	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP7 (27.5-30ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC Project: 220293 100 East 149th Street Bronx, NY

Matrix: Soil Laboratory ID: 23K0753-04 File ID:

Sampled: 11/09/23 13:05 Prepared: 11/15/23 10:20 Analyzed: 11/15/23 14:40

Solids: 85.37 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK30986 Sequence: Calibration: 11/15/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	85.4	1		SM 2540G

Appendix B

Laboratory QC Documentation

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Sequence: S3K1611
Instrument: VOA No. 3
Calibration: SJ30040

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1611-CCV1)			Lab File ID: V3178187.D		Analyzed: 11/15/23 10:27			
SURR: 1,2-Dichloroethane-d4	50.0	96.1	80 - 120	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	80 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.8	80 - 120	10.142	10.158	-0.0160	+/-1.00	
LCS (BK30917-BS1)			Lab File ID: V3178188.D		Analyzed: 11/15/23 11:03			
SURR: 1,2-Dichloroethane-d4	50.0	96.4	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	101	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	82.3	76 - 130	10.142	10.158	-0.0160	+/-1.00	
LCS Dup (BK30917-BSD1)			Lab File ID: V3178189.D		Analyzed: 11/15/23 11:29			
SURR: 1,2-Dichloroethane-d4	50.0	98.0	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	100	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.8	76 - 130	10.142	10.158	-0.0160	+/-1.00	
Blank (BK30917-BLK1)			Lab File ID: V3178190.D		Analyzed: 11/15/23 11:55			
SURR: 1,2-Dichloroethane-d4	50.0	99.9	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	100	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	81.9	76 - 130	10.142	10.158	-0.0160	+/-1.00	
Blank (BK30917-BLK2)			Lab File ID: V3178191.D		Analyzed: 11/15/23 12:21			
SURR: 1,2-Dichloroethane-d4	50.0	100	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	99.9	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	82.3	76 - 130	10.142	10.158	-0.0160	+/-1.00	
23SP7 (0-2.5ft) (23K0753-01)			Lab File ID: V3178205.D		Analyzed: 11/15/23 18:28			
SURR: 1,2-Dichloroethane-d4	50.0	99.6	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	102	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	86.5	76 - 130	10.142	10.158	-0.0160	+/-1.00	
23SP7 (12-14ft) (23K0753-02)			Lab File ID: V3178206.D		Analyzed: 11/15/23 18:54			
SURR: 1,2-Dichloroethane-d4	50.0	70.7	77 - 125	5.576	5.590429	-0.0144	+/-1.00	*
SURR: Toluene-d8	50.0	97.0	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	114	76 - 130	10.139	10.158	-0.0190	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Sequence: S3K1716
Instrument: VOA No. 3
Calibration: SJ30040

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K1716-CCV1)			Lab File ID: V3178214.D		Analyzed: 11/16/23 10:38			
SURR: 1,2-Dichloroethane-d4	50.0	95.2	80 - 120	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	99.7	80 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	80.0	80 - 120	10.139	10.158	-0.0190	+/-1.00	
LCS (BK31035-BS1)			Lab File ID: V3178215.D		Analyzed: 11/16/23 11:11			
SURR: 1,2-Dichloroethane-d4	50.0	95.8	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	99.4	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	80.3	76 - 130	10.139	10.158	-0.0190	+/-1.00	
LCS Dup (BK31035-BSD1)			Lab File ID: V3178216.D		Analyzed: 11/16/23 11:38			
SURR: 1,2-Dichloroethane-d4	50.0	97.3	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	98.9	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	80.3	76 - 130	10.139	10.158	-0.0190	+/-1.00	
Blank (BK31035-BLK1)			Lab File ID: V3178217.D		Analyzed: 11/16/23 12:04			
SURR: 1,2-Dichloroethane-d4	50.0	99.4	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	98.9	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	79.8	76 - 130	10.139	10.158	-0.0190	+/-1.00	
Blank (BK31035-BLK2)			Lab File ID: V3178218.D		Analyzed: 11/16/23 12:30			
SURR: 1,2-Dichloroethane-d4	50.0	97.7	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	99.3	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	80.1	76 - 130	10.142	10.158	-0.0160	+/-1.00	
23SP7 (14-18ft) (23K0753-03)			Lab File ID: V3178224.D		Analyzed: 11/16/23 15:07			
SURR: 1,2-Dichloroethane-d4	50.0	71.5	77 - 125	5.576	5.590429	-0.0144	+/-1.00	*
SURR: Toluene-d8	50.0	96.1	85 - 120	7.36	7.377286	-0.0173	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	105	76 - 130	10.142	10.158	-0.0160	+/-1.00	
23SP7 (27.5-30ft) (23K0753-04)			Lab File ID: V3178226.D		Analyzed: 11/16/23 15:59			
SURR: 1,2-Dichloroethane-d4	50.0	98.5	77 - 125	5.576	5.590429	-0.0144	+/-1.00	
SURR: Toluene-d8	50.0	98.4	85 - 120	7.363	7.377286	-0.0143	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	79.6	76 - 130	10.139	10.158	-0.0190	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Water		
Batch:	BK30900	Laboratory ID:	BK30900-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.6	96.5	82 - 126
1,1,1-Trichloroethane	10.0	9.2	91.6	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	112	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.8	98.2	54 - 165
1,1,2-Trichloroethane	10.0	9.9	99.4	82 - 123
1,1-Dichloroethane	10.0	9.0	89.6	82 - 129
1,1-Dichloroethylene	10.0	9.8	97.8	68 - 138
1,2,3-Trichlorobenzene	10.0	12	116	40 - 130
1,2,3-Trichloropropane	10.0	9.8	98.3	77 - 128
1,2,4-Trichlorobenzene	10.0	11	110	65 - 137
1,2,4-Trimethylbenzene	10.0	10	102	82 - 132
1,2-Dibromo-3-chloropropane	10.0	10	100	45 - 147
1,2-Dibromoethane	10.0	10	102	83 - 124
1,2-Dichlorobenzene	10.0	10	99.7	79 - 123
1,2-Dichloroethane	10.0	9.9	99.0	73 - 132
1,2-Dichloropropane	10.0	9.7	96.7	78 - 126
1,3,5-Trimethylbenzene	10.0	10	100	80 - 131
1,3-Dichlorobenzene	10.0	10	99.7	86 - 130
1,4-Dichlorobenzene	10.0	9.7	97.4	85 - 130
1,4-Dioxane	210	3.9	1.85 *	10 - 349
2-Butanone	10.0	8.4	83.6	49 - 152
2-Hexanone	10.0	9.5	94.6	51 - 146
4-Methyl-2-pentanone	10.0	10	102	57 - 145
Acetone	10.0	6.1	61.1	14 - 150
Acrolein	10.0	11	105	10 - 153
Acrylonitrile	10.0	9.7	96.6	51 - 150
Benzene	10.0	9.5	94.8	85 - 126
Bromochloromethane	10.0	9.6	95.6	77 - 128
Bromodichloromethane	10.0	9.7	96.6	79 - 128
Bromoform	10.0	10	103	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Water		
Batch:	BK30900	Laboratory ID:	BK30900-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	9.8	98.5	43 - 168
Carbon disulfide	10.0	9.9	99.0	68 - 146
Carbon tetrachloride	10.0	9.2	92.4	77 - 141
Chlorobenzene	10.0	9.7	96.9	88 - 120
Chloroethane	10.0	9.5	94.8	65 - 136
Chloroform	10.0	9.0	90.5	82 - 128
Chloromethane	10.0	11	108	43 - 155
cis-1,2-Dichloroethylene	10.0	9.3	93.1	83 - 129
cis-1,3-Dichloropropylene	10.0	9.4	94.2	80 - 131
Cyclohexane	10.0	9.3	92.9	63 - 149
Dibromochloromethane	10.0	10	102	80 - 130
Dibromomethane	10.0	9.6	96.3	72 - 134
Dichlorodifluoromethane	10.0	10	101	44 - 144
Ethyl Benzene	10.0	9.8	98.2	80 - 131
Hexachlorobutadiene	10.0	11	110	67 - 146
Isopropylbenzene	10.0	9.7	96.8	76 - 140
Methyl acetate	10.0	9.5	95.4	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.8	98.3	76 - 135
Methylcyclohexane	10.0	9.8	97.6	72 - 143
Methylene chloride	10.0	9.2	92.0	55 - 137
n-Butylbenzene	10.0	11	106	79 - 132
n-Propylbenzene	10.0	9.8	98.4	78 - 133
o-Xylene	10.0	9.6	96.2	78 - 130
p- & m- Xylenes	20.0	20	98.6	77 - 133
p-Isopropyltoluene	10.0	10	103	81 - 136
sec-Butylbenzene	10.0	10	101	79 - 137
Styrene	10.0	10	99.7	67 - 132
tert-Butyl alcohol (TBA)	50.0	60	120	25 - 162
tert-Butylbenzene	10.0	9.7	97.1	77 - 138
Tetrachloroethylene	10.0	5.4	54.1 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Water		
Batch:	BK30900	Laboratory ID:	BK30900-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	11	107		7.90	30	43 - 168
Carbon disulfide	10.0	9.7	97.2		1.83	30	68 - 146
Carbon tetrachloride	10.0	9.2	92.0		0.434	30	77 - 141
Chlorobenzene	10.0	9.7	97.2		0.309	30	88 - 120
Chloroethane	10.0	9.4	93.5		1.38	30	65 - 136
Chloroform	10.0	9.1	91.3		0.880	30	82 - 128
Chloromethane	10.0	11	107		0.186	30	43 - 155
cis-1,2-Dichloroethylene	10.0	9.4	94.5		1.49	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.8	97.7		3.65	30	80 - 131
Cyclohexane	10.0	9.2	91.7		1.30	30	63 - 149
Dibromochloromethane	10.0	10	104		2.23	30	80 - 130
Dibromomethane	10.0	10	101		5.16	30	72 - 134
Dichlorodifluoromethane	10.0	10	105		3.79	30	44 - 144
Ethyl Benzene	10.0	9.7	97.1		1.13	30	80 - 131
Hexachlorobutadiene	10.0	10	103		6.69	30	67 - 146
Isopropylbenzene	10.0	9.4	94.2		2.72	30	76 - 140
Methyl acetate	10.0	9.9	99.4		4.11	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	102		3.50	30	76 - 135
Methylcyclohexane	10.0	9.5	95.4		2.28	30	72 - 143
Methylene chloride	10.0	9.4	93.7		1.83	30	55 - 137
n-Butylbenzene	10.0	10	103		2.68	30	79 - 132
n-Propylbenzene	10.0	9.6	95.8		2.68	30	78 - 133
o-Xylene	10.0	9.6	96.0		0.208	30	78 - 130
p- & m- Xylenes	20.0	20	98.1		0.508	30	77 - 133
p-Isopropyltoluene	10.0	10	101		1.96	30	81 - 136
sec-Butylbenzene	10.0	9.8	98.2		2.41	30	79 - 137
Styrene	10.0	9.9	99.4		0.301	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	66	131		9.10	30	25 - 162
tert-Butylbenzene	10.0	9.5	95.2		1.98	30	77 - 138
Tetrachloroethylene	10.0	5.4	53.5	*	1.12	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #		QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	48	96.3		75 - 129
1,1,1-Trichloroethane	50.0	43	87.0		71 - 137
1,1,2,2-Tetrachloroethane	50.0	41	81.6		79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	41	81.3		58 - 146
1,1,2-Trichloroethane	50.0	44	88.5		83 - 123
1,1-Dichloroethane	50.0	42	83.9		75 - 130
1,1-Dichloroethylene	50.0	42	84.7		64 - 137
1,2,3-Trichlorobenzene	50.0	46	92.1		81 - 140
1,2,3-Trichloropropane	50.0	41	82.3		81 - 126
1,2,4-Trichlorobenzene	50.0	44	88.6		80 - 141
1,2,4-Trimethylbenzene	50.0	43	85.6		84 - 125
1,2-Dibromo-3-chloropropane	50.0	31	62.5	*	74 - 142
1,2-Dibromoethane	50.0	46	92.7		86 - 123
1,2-Dichlorobenzene	50.0	48	95.8		85 - 122
1,2-Dichloroethane	50.0	42	84.4		71 - 133
1,2-Dichloropropane	50.0	43	85.5		81 - 122
1,3,5-Trimethylbenzene	50.0	42	84.3		82 - 126
1,3-Dichlorobenzene	50.0	47	94.8		84 - 124
1,4-Dichlorobenzene	50.0	47	93.9		84 - 124
1,4-Dioxane	1050	410	39.2		10 - 228
2-Butanone	50.0	37	73.1		58 - 147
2-Hexanone	50.0	31	61.1	*	70 - 139
4-Methyl-2-pentanone	50.0	37	74.0		72 - 132
Acetone	50.0	30	60.6		36 - 155
Acrolein	50.0	39	77.8		10 - 238
Acrylonitrile	50.0	41	82.7		66 - 141
Benzene	50.0	45	90.2		77 - 127
Bromochloromethane	50.0	41	81.4		74 - 129
Bromodichloromethane	50.0	38	75.2	*	81 - 124
Bromoform	50.0	40	80.7		80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	50.0	49	98.9	32 - 177
Carbon disulfide	50.0	46	92.0	10 - 136
Carbon tetrachloride	50.0	46	92.1	66 - 143
Chlorobenzene	50.0	49	98.0	86 - 120
Chloroethane	50.0	47	93.2	51 - 142
Chloroform	50.0	44	87.7	76 - 131
Chloromethane	50.0	45	90.9	49 - 132
cis-1,2-Dichloroethylene	50.0	41	82.8	74 - 132
cis-1,3-Dichloropropylene	50.0	41	82.9	81 - 129
Cyclohexane	50.0	42	83.1	70 - 130
Dibromochloromethane	50.0	39	78.6	10 - 200
Dibromomethane	50.0	43	86.6	83 - 124
Dichlorodifluoromethane	50.0	56	112	28 - 158
Ethyl Benzene	50.0	45	89.5	84 - 125
Hexachlorobutadiene	50.0	46	91.4	83 - 133
Isopropylbenzene	50.0	42	85.0	81 - 127
Methyl acetate	50.0	36	72.3	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	40	80.3	74 - 131
Methylcyclohexane	50.0	43	85.5	70 - 130
Methylene chloride	50.0	40	79.5	57 - 141
n-Butylbenzene	50.0	41	81.1	80 - 130
n-Propylbenzene	50.0	41	82.0	74 - 136
o-Xylene	50.0	45	89.8	83 - 123
p- & m- Xylenes	100	91	90.7	82 - 128
p-Isopropyltoluene	50.0	44	87.8	85 - 125
sec-Butylbenzene	50.0	43	86.8	83 - 125
Styrene	50.0	47	94.9	86 - 126
tert-Butyl alcohol (TBA)	250	170	68.8 *	70 - 130
tert-Butylbenzene	50.0	44	87.6	80 - 127
Tetrachloroethylene	50.0	42	84.1	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	50.0	45	89.8	85 - 121
trans-1,2-Dichloroethylene	50.0	43	85.1	72 - 132
trans-1,3-Dichloropropylene	50.0	36	71.1 *	78 - 132
trans-1,4-dichloro-2-butene	50.0	35	69.2 *	75 - 135
Trichloroethylene	50.0	44	88.0	84 - 123
Trichlorofluoromethane	50.0	49	98.0	62 - 140
Vinyl Chloride	50.0	48	95.8	52 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK30917	Laboratory ID:	BK30917-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	51	102	5.63	30	75 - 129
1,1,1-Trichloroethane	50.0	45	90.7	4.21	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	43	86.7	6.01	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	40	79.3	2.44	30	58 - 146
1,1,2-Trichloroethane	50.0	47	94.6	6.67	30	83 - 123
1,1-Dichloroethane	50.0	44	88.2	5.04	30	75 - 130
1,1-Dichloroethylene	50.0	42	83.4	1.62	30	64 - 137
1,2,3-Trichlorobenzene	50.0	48	96.6	4.75	30	81 - 140
1,2,3-Trichloropropane	50.0	44	87.4	5.96	30	81 - 126
1,2,4-Trichlorobenzene	50.0	46	92.3	4.09	30	80 - 141
1,2,4-Trimethylbenzene	50.0	44	88.2	3.04	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	33	66.9 *	6.77	30	74 - 142
1,2-Dibromoethane	50.0	49	98.7	6.33	30	86 - 123
1,2-Dichlorobenzene	50.0	50	100	4.75	30	85 - 122
1,2-Dichloroethane	50.0	45	90.2	6.64	30	71 - 133
1,2-Dichloropropane	50.0	45	89.6	4.61	30	81 - 122
1,3,5-Trimethylbenzene	50.0	43	86.8	2.90	30	82 - 126
1,3-Dichlorobenzene	50.0	49	98.9	4.25	30	84 - 124
1,4-Dichlorobenzene	50.0	49	98.1	4.31	30	84 - 124
1,4-Dioxane	1050	440	41.6	5.96	30	10 - 228
2-Butanone	50.0	39	78.7	7.43	30	58 - 147
2-Hexanone	50.0	33	65.9 *	7.56	30	70 - 139
4-Methyl-2-pentanone	50.0	40	80.0	7.79	30	72 - 132
Acetone	50.0	33	65.0	7.07	30	36 - 155
Acrolein	50.0	39	77.2	0.851	30	10 - 238
Acrylonitrile	50.0	45	89.6	7.96	30	66 - 141
Benzene	50.0	47	94.6	4.74	30	77 - 127
Bromochloromethane	50.0	43	86.2	5.68	30	74 - 129
Bromodichloromethane	50.0	40	79.7 *	5.81	30	81 - 124
Bromoform	50.0	43	87.0	7.52	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK31035	Laboratory ID:	BK31035-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	49	97.9	75 - 129
1,1,1-Trichloroethane	50.0	45	89.1	71 - 137
1,1,2,2-Tetrachloroethane	50.0	39	78.6 *	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	48	96.6	58 - 146
1,1,2-Trichloroethane	50.0	44	88.5	83 - 123
1,1-Dichloroethane	50.0	42	83.8	75 - 130
1,1-Dichloroethylene	50.0	43	86.1	64 - 137
1,2,3-Trichlorobenzene	50.0	46	91.6	81 - 140
1,2,3-Trichloropropane	50.0	40	80.2 *	81 - 126
1,2,4-Trichlorobenzene	50.0	44	87.7	80 - 141
1,2,4-Trimethylbenzene	50.0	41	82.6 *	84 - 125
1,2-Dibromo-3-chloropropane	50.0	32	64.4 *	74 - 142
1,2-Dibromoethane	50.0	46	92.7	86 - 123
1,2-Dichlorobenzene	50.0	47	94.3	85 - 122
1,2-Dichloroethane	50.0	42	84.4	71 - 133
1,2-Dichloropropane	50.0	41	82.8	81 - 122
1,3,5-Trimethylbenzene	50.0	41	81.4 *	82 - 126
1,3-Dichlorobenzene	50.0	46	92.9	84 - 124
1,4-Dichlorobenzene	50.0	46	92.1	84 - 124
1,4-Dioxane	1050	390	37.3	10 - 228
2-Butanone	50.0	35	69.1	58 - 147
2-Hexanone	50.0	28	56.5 *	70 - 139
4-Methyl-2-pentanone	50.0	36	71.2 *	72 - 132
Acetone	50.0	26	52.8	36 - 155
Acrolein	50.0	36	72.8	10 - 238
Acrylonitrile	50.0	40	80.0	66 - 141
Benzene	50.0	45	90.9	77 - 127
Bromochloromethane	50.0	40	79.1	74 - 129
Bromodichloromethane	50.0	38	75.7 *	81 - 124
Bromoform	50.0	45	89.4	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK31035	Laboratory ID:	BK31035-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	50.0	44	87.5	85 - 121
trans-1,2-Dichloroethylene	50.0	42	84.2	72 - 132
trans-1,3-Dichloropropylene	50.0	36	71.5 *	78 - 132
trans-1,4-dichloro-2-butene	50.0	34	68.4 *	75 - 135
Trichloroethylene	50.0	44	87.0	84 - 123
Trichlorofluoromethane	50.0	47	93.3	62 - 140
Vinyl Chloride	50.0	43	85.7	52 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Matrix: Soil
Batch: BK31035
Laboratory ID: BK31035-BSD1
Preparation: EPA 5035A
Initial/Final: 5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	53	106		7.98	30	75 - 129
1,1,1-Trichloroethane	50.0	48	96.0		7.41	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	44	88.4		11.7	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	52	104		7.70	30	58 - 146
1,1,2-Trichloroethane	50.0	50	99.1		11.2	30	83 - 123
1,1-Dichloroethane	50.0	45	90.8		8.06	30	75 - 130
1,1-Dichloroethylene	50.0	46	92.6		7.28	30	64 - 137
1,2,3-Trichlorobenzene	50.0	50	99.6		8.33	30	81 - 140
1,2,3-Trichloropropane	50.0	45	90.1		11.6	30	81 - 126
1,2,4-Trichlorobenzene	50.0	47	94.4		7.29	30	80 - 141
1,2,4-Trimethylbenzene	50.0	44	88.8		7.19	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	37	73.0	*	12.5	30	74 - 142
1,2-Dibromoethane	50.0	52	105		12.2	30	86 - 123
1,2-Dichlorobenzene	50.0	51	102		7.79	30	85 - 122
1,2-Dichloroethane	50.0	46	92.0		8.66	30	71 - 133
1,2-Dichloropropane	50.0	45	90.2		8.62	30	81 - 122
1,3,5-Trimethylbenzene	50.0	44	87.2		6.81	30	82 - 126
1,3-Dichlorobenzene	50.0	50	100		7.66	30	84 - 124
1,4-Dichlorobenzene	50.0	50	99.6		7.84	30	84 - 124
1,4-Dioxane	1050	460	43.6		15.6	30	10 - 228
2-Butanone	50.0	40	80.2		14.8	30	58 - 147
2-Hexanone	50.0	33	65.8	*	15.3	30	70 - 139
4-Methyl-2-pentanone	50.0	41	81.5		13.5	30	72 - 132
Acetone	50.0	31	61.1		14.6	30	36 - 155
Acrolein	50.0	41	82.7		12.7	30	10 - 238
Acrylonitrile	50.0	46	92.9		15.0	30	66 - 141
Benzene	50.0	49	98.5		7.98	30	77 - 127
Bromochloromethane	50.0	44	87.1		9.65	30	74 - 129
Bromodichloromethane	50.0	41	82.5		8.57	30	81 - 124
Bromoform	50.0	50	100		11.2	30	80 - 136

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SJ30040
Instrument: VOA No. 3
Calibration Date: 10/28/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2384013	11.75781	9.010714	2.479249E-02			20	
1,1,1-Trichloroethane	1.834756	11.49464	5.231571	0.024939			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4714785	14.21494	10.36729	1.716081E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.234276	6.053587	3.034	5.569269E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.1782308	7.472024	7.921571	1.962079E-02			SPCC (0.1)	
1,1-Dichloroethane	2.090544	7.313482	4.247	2.056814E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.862196	6.603119	3.073	1.309328E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.704206	6.988216	5.382143	2.882049E-02			20	
1,2,3-Trichlorobenzene	0.7449893	14.78892	14.29143	0.0161332			20	
1,2,3-Trichloropropane	0.1507392	11.17688	10.41457	1.383028E-02			20	
1,2,4,5-Tetramethylbenzene	2.493437	14.85021	12.67143	7.728793E-03			20	
1,2,4-Trichlorobenzene	0.8714105	16.51116	13.71643	1.743746E-02		0.9996992	SPCC (0.2)	
1,2,4-Trimethylbenzene	2.541767	10.03764	11.00243	4.111367E-03			20	
1,2-Dibromo-3-chloropropane	6.971226E-02	27.79376	12.831	1.236637E-02		0.9992257	SPCC (0.05)	
1,2-Dibromoethane	0.1664536	7.552877	8.453143	0.0120798			SPCC (0.1)	
1,2-Dichlorobenzene	1.151762	6.665638	11.90071	1.491526E-02			SPCC (0.4)	
1,2-Dichloroethane	1.227189	4.059157	5.663429	3.237624E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2555628	6.967666	6.451	3.129295E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.654875	8.620812	10.57629	1.755904E-02			20	
1,3-Dichlorobenzene	1.336811	7.280513	11.36529	2.025003E-02			SPCC (0.6)	
1,3-Dichloropropane	0.3072879	5.273655	8.087572	1.281422E-02			20	
1,4-Dichlorobenzene	1.307678	7.41856	11.46843	2.710739E-02			SPCC (0.5)	
1,4-Dioxane	1.682105E-03	11.15415	6.588429	4.072952E-02			20	
2,2-Dichloropropane	1.5959	16.28143	4.767429	2.233768E-02		0.9994339	0.99	
2-Butanone	9.308985E-02	15.28463	4.829286	5.277066E-02		0.9992509	SPCC (0.1)	
2-Chlorotoluene	2.414105	7.906721	10.51871	1.577409E-02			20	
2-Hexanone	0.123174	15.62128	8.13	2.036163E-02		0.9990241	SPCC (0.1)	
4-Chlorotoluene	2.099079	7.652635	10.64271	2.160992E-02			20	
4-Methyl-2-pentanone	0.1675986	11.90445	7.284286	2.829886E-02			SPCC (0.1)	
Acetone	0.3653109	10.24226	3.193429	6.451558E-02			SPCC (0.1)	
Acrolein	0.1196337	11.04062	3.037286	6.786738E-02			20	
Acrylonitrile	0.2703492	10.89385	3.885857	3.358107E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30023
Instrument: VOA No. 10
Calibration Date: 11/13/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2043132	7.835886	9.628	2.134549E-02			20	
1,1,1-Trichloroethane	1.31616	8.508703	5.817	1.240228E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.2847887	5.757991	10.979	2.391796E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.165737	8.352415	3.02225	8.899023E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.1249969	4.704316	8.51775	4.483666E-02			SPCC (0.1)	
1,1-Dichloroethane	1.620439	7.740313	4.804375	0.0392926			SPCC (0.2)	
1,1-Dichloroethylene	1.201651	6.701393	3.593625	9.753026E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.263368	6.664918	5.969	4.968925E-02			20	
1,2,3-Trichlorobenzene	0.1856812	7.528253	14.96288	2.210176E-02			20	
1,2,3-Trichloropropane	8.673113E-02	5.53618	11.03225	4.034685E-02			20	
1,2,4,5-Tetramethylbenzene	1.566518	8.402841	13.31037	2.183343E-02			20	
1,2,4-Trichlorobenzene	0.3226344	5.819927	14.37912	2.870091E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.470927	7.245235	11.63113	7.121948E-03			20	
1,2-Dibromo-3-chloropropane	3.609697E-02	8.117747	13.48088	3.879642E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1114937	6.49781	9.071625	4.330319E-02			SPCC (0.1)	
1,2-Dichlorobenzene	0.9558958	6.923761	12.548	2.439198E-02			SPCC (0.4)	
1,2-Dichloroethane	0.6602432	5.479099	6.2455	3.825149E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2347168	5.762307	7.04725	4.284907E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.565678	9.261794	11.19825	1.962082E-02			20	
1,3-Dichlorobenzene	1.235505	9.365939	12.006	3.043911E-02			SPCC (0.6)	
1,3-Dichloropropane	0.2250245	5.689955	8.691	2.047404E-02			20	
1,4-Dichlorobenzene	1.202635	9.229982	12.10775	1.708694E-02			SPCC (0.5)	
1,4-Dioxane	7.185599E-04	12.07121	7.185375	5.388971E-02			20	
2,2-Dichloropropane	1.336593	5.120614	5.3425	0.0276503			20	
2-Butanone	4.470198E-02	13.45601	5.39025	0.10413			SPCC (0.1)	
2-Chlorotoluene	2.609075	9.683838	11.152	3.338235E-02			20	
2-Hexanone	0.0477914	7.770146	8.7235	3.760743E-02			SPCC (0.1)	
4-Chlorotoluene	2.166081	8.026603	11.276	2.202936E-02			20	
4-Methyl-2-pentanone	7.071489E-02	6.745571	7.872625	6.147673E-02			SPCC (0.1)	
Acetone	0.1029164	14.62678	3.69925	9.755937E-02			SPCC (0.1)	
Acrolein	4.106104E-02	8.213542	3.542	0.1051263			20	
Acrylonitrile	0.1030886	8.985775	4.42075	8.241475E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30023
Instrument: VOA No. 10
Calibration Date: 11/13/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.867295	5.961473	6.1845	1.863724E-02			SPCC (0.5)	
Bromobenzene	1.010382	7.871261	10.96562	2.371528E-02			20	
Bromochloromethane	0.5546638	6.635638	5.6175	6.159754E-02			20	
Bromodichloromethane	0.2548346	7.407525	7.325875	2.376526E-02			SPCC (0.2)	
Bromoform	6.821166E-02	8.967985	10.48425	1.865824E-02			SPCC (0.1)	
Bromomethane	0.3934499	33.71346	2.6465	0.1178845		0.9985315	SPCC (0.1)	
Carbon disulfide	2.421762	2.786638	3.8375	4.328812E-02			SPCC (0.1)	
Carbon tetrachloride	1.134902	8.250361	5.961375	3.775895E-02			SPCC (0.1)	
Chlorobenzene	0.694694	6.272974	9.5415	1.578779E-02			SPCC (0.5)	
Chloroethane	0.6669515	6.924552	2.762375	9.084165E-02			SPCC (0.1)	
Chloroform	1.454524	7.218369	5.676125	0.0314738			SPCC (0.2)	
Chloromethane	0.815465	9.149658	2.11625	0.1280819			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.350556	8.646566	5.370875	0.0572978			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.3490926	6.581658	7.746	2.522531E-02			SPCC (0.2)	
Cyclohexane	1.795318	5.417595	5.83325	2.221957E-02			SPCC (0.1)	
Dibromochloromethane	0.1454692	8.999173	8.942375	0.023576			SPCC (0.1)	
Dibromomethane	8.387346E-02	4.023995	7.194125	2.024872E-02			20	
Dichlorodifluoromethane	0.7492901	8.340477	1.881375	5.367423E-02			SPCC (0.1)	
Ethyl Benzene	1.263362	6.585365	9.61125	1.476849E-02			SPCC (0.1)	
Hexachlorobutadiene	0.1656709	5.004916	14.51025	1.622774E-02			20	
Isopropylbenzene	3.529169	8.89672	10.55562	1.084228E-02			SPCC (0.1)	
Methyl acetate	0.2206295	6.069689	4.335375	0.093104			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	1.357067	6.027833	4.334125	5.898096E-02			SPCC (0.1)	
Methylcyclohexane	0.5191845	6.490405	6.924	3.968931E-02			SPCC (0.1)	
Methylene chloride	0.9739835	3.661314	4.133125	0.0527159			SPCC (0.1)	
Naphthalene	0.5403382	4.998807	14.68462	2.422793E-02			20	
n-Butylbenzene	2.544573	7.197986	12.44037	7.298363E-03			20	
n-Propylbenzene	4.0777	8.690692	11.01062	7.514774E-03			20	
o-Xylene	0.9404569	6.708659	10.17475	2.804037E-02			SPCC (0.3)	
p- & m- Xylenes	0.9359828	7.322255	9.729375	0.0269442			SPCC (0.1)	
p-Diethylbenzene	1.375449	9.429349	12.40762	1.803794E-02			20	
p-Ethyltoluene	3.340405	9.045843	11.13313	0.0315766			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SJ30040
Laboratory ID: S3J3008-SCV1
Sequence: S3J3008
Standard ID: S23J307

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	50.0	52.0	4.0	30.00
1,1,1-Trichloroethane	50.0	51.9	3.8	30.00
1,1,2,2-Tetrachloroethane	50.0	49.4	-1.2	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	51.3	2.7	30.00
1,1,2-Trichloroethane	50.0	49.2	-1.5	30.00
1,1-Dichloroethane	50.0	48.3	-3.5	30.00
1,1-Dichloroethylene	50.0	50.9	1.7	30.00
1,2,3-Trichlorobenzene	50.0	46.7	-6.5	30.00
1,2,3-Trichloropropane	50.0	48.9	-2.2	30.00
1,2,4-Trichlorobenzene	50.0	44.2	-11.7	30.00
1,2,4-Trimethylbenzene	50.0	50.3	0.5	30.00
1,2-Dibromo-3-chloropropane	50.0	42.3	-15.5	30.00
1,2-Dibromoethane	50.0	51.6	3.2	30.00
1,2-Dichlorobenzene	50.0	49.2	-1.6	30.00
1,2-Dichloroethane	50.0	50.1	0.1	30.00
1,2-Dichloropropane	50.0	50.9	1.8	30.00
1,3,5-Trimethylbenzene	50.0	50.0	0.06	30.00
1,3-Dichlorobenzene	50.0	49.3	-1.3	30.00
1,4-Dichlorobenzene	50.0	49.1	-1.8	30.00
1,4-Dioxane	1050	1090	3.7	30.00
2-Butanone	50.0	41.2	-17.7	30.00
2-Hexanone	50.0	39.8	-20.3	30.00
4-Methyl-2-pentanone	50.0	50.4	0.8	30.00
Acetone	50.0	91.2	82.3 *	30.00
Acrolein	50.0	48.6	-2.7	30.00
Acrylonitrile	50.0	50.8	1.6	30.00
Benzene	50.0	51.3	2.6	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30023
Laboratory ID: S3K1425-SCV1
Sequence: S3K1425
Standard ID: S23K113

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.38	-6.2	30.00
1,1,1-Trichloroethane	10.0	8.91	-10.9	30.00
1,1,2,2-Tetrachloroethane	10.0	10.8	7.9	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.75	-2.5	30.00
1,1,2-Trichloroethane	10.0	9.65	-3.5	30.00
1,1-Dichloroethane	10.0	8.84	-11.6	30.00
1,1-Dichloroethylene	10.0	9.62	-3.8	30.00
1,2,3-Trichlorobenzene	10.0	10.1	0.6	30.00
1,2,3-Trichloropropane	10.0	9.60	-4.0	30.00
1,2,4-Trichlorobenzene	10.0	9.67	-3.3	30.00
1,2,4-Trimethylbenzene	10.0	9.67	-3.3	30.00
1,2-Dibromo-3-chloropropane	10.0	10.4	4.3	30.00
1,2-Dibromoethane	10.0	9.93	-0.7	30.00
1,2-Dichlorobenzene	10.0	9.41	-5.9	30.00
1,2-Dichloroethane	10.0	9.60	-4.0	30.00
1,2-Dichloropropane	10.0	9.61	-3.9	30.00
1,3,5-Trimethylbenzene	10.0	9.63	-3.7	30.00
1,3-Dichlorobenzene	10.0	9.48	-5.2	30.00
1,4-Dichlorobenzene	10.0	9.35	-6.5	30.00
1,4-Dioxane	210	96.2	-54.2 *	30.00
2-Butanone	10.0	8.63	-13.7	30.00
2-Hexanone	10.0	9.06	-9.4	30.00
4-Methyl-2-pentanone	10.0	9.57	-4.3	30.00
Acetone	10.0	6.13	-38.7 *	30.00
Acrolein	10.0	10.9	9.3	30.00
Acrylonitrile	10.0	9.92	-0.8	30.00
Benzene	10.0	9.30	-7.0	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30023
Laboratory ID: S3K1425-SCV1
Sequence: S3K1425
Standard ID: S23K113

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.55	-4.5	30.00
sec-Butylbenzene	10.0	9.37	-6.3	30.00
Styrene	10.0	9.62	-3.8	30.00
tert-Butyl alcohol (TBA)	50.0	63.9	27.7	30.00
tert-Butylbenzene	10.0	9.26	-7.4	30.00
Tetrachloroethylene	10.0	5.21	-47.9 *	30.00
Toluene	10.0	9.56	-4.4	30.00
trans-1,2-Dichloroethylene	10.0	9.06	-9.4	30.00
trans-1,3-Dichloropropylene	10.0	9.43	-5.7	30.00
trans-1,4-dichloro-2-butene	10.0	10.0	0.2	30.00
Trichloroethylene	10.0	8.99	-10.1	30.00
Trichlorofluoromethane	10.0	9.75	-2.5	30.00
Vinyl Chloride	10.0	10.1	1.3	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021620.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K1517	Injection Date:	11/14/23
Lab Sample ID:	S3K1517-CCV1	Injection Time:	11:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	10.1	0.2043132	0.2059819		0.8	20	
1,1,1-Trichloroethane	A	10.0	9.76	1.31616	1.28469	0.1	-2.4	20	
1,1,2,2-Tetrachloroethane	A	10.0	11.1	0.2847887	0.3155766	0.3	10.8	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.42	1.165737	1.09784	0.1	-5.8	20	
1,1,2-Trichloroethane	A	10.0	10.4	0.1249969	0.1294432	0.1	3.6	20	
1,1-Dichloroethane	A	10.0	9.72	1.620439	1.574872	0.2	-2.8	20	
1,1-Dichloroethylene	A	10.0	9.50	1.201651	1.141494	0.1	-5.0	20	
1,2,3-Trichlorobenzene	A	10.0	12.1	0.1856812	0.2240466		20.7	20	*
1,2,3-Trichloropropane	A	10.0	10.3	8.673113E-02	8.937362E-02		3.0	20	
1,2,4-Trichlorobenzene	A	10.0	11.6	0.3226344	0.3747708	0.2	16.2	20	
1,2,4-Trimethylbenzene	A	10.0	10.3	2.470927	2.541557		2.9	20	
1,2-Dibromo-3-chloropropane	A	10.0	11.0	3.609697E-02	3.983302E-02	0.05	10.4	20	
1,2-Dibromoethane	A	10.0	10.3	0.1114937	0.1151192	0.1	3.3	20	
1,2-Dichlorobenzene	A	10.0	10.4	0.9558958	0.9935897	0.4	3.9	20	
1,2-Dichloroethane	A	10.0	10.0	0.6602432	0.662738	0.1	0.4	20	
1,2-Dichloropropane	A	10.0	10.1	0.2347168	0.2366007	0.1	0.8	20	
1,3,5-Trimethylbenzene	A	10.0	10.3	2.565678	2.632323		2.6	20	
1,3-Dichlorobenzene	A	10.0	10.5	1.235505	1.302132	0.6	5.4	20	
1,4-Dichlorobenzene	A	10.0	10.4	1.202635	1.256893	0.5	4.5	20	
1,4-Dioxane	A	200	199	7.185599E-04	7.155981E-04		-0.4	20	
2-Butanone	A	10.0	9.50	4.470198E-02	4.248437E-02	0.1	-5.0	20	
2-Hexanone	A	10.0	10.6	0.047794	5.046436E-02	0.1	5.6	20	
4-Methyl-2-pentanone	A	10.0	10.2	7.071489E-02	7.248876E-02	0.1	2.5	20	
Acetone	A	10.0	8.74	0.1029164	8.993765E-02	0.1	-12.6	20	
Acrolein	A	10.0	10.2	4.106104E-02	4.184587E-02		1.9	20	
Acrylonitrile	A	10.0	9.82	0.1030886	0.1012831		-1.8	20	
Benzene	A	10.0	9.64	3.867295	3.728838	0.5	-3.6	20	
Bromochloromethane	A	10.0	9.85	0.5546638	0.5465335		-1.5	20	
Bromodichloromethane	A	10.0	10.1	0.2548346	0.2577832	0.2	1.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021620.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K1517	Injection Date:	11/14/23
Lab Sample ID:	S3K1517-CCV1	Injection Time:	11:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	10.4	6.821166E-02	7.102971E-02	0.1	4.1	20
Bromomethane	A	10.0	8.78	0.3934499	0.3453875	0.1	-12.2	20
Carbon disulfide	A	10.0	9.53	2.421762	2.308833	0.1	-4.7	20
Carbon tetrachloride	A	10.0	9.81	1.134902	1.11344	0.1	-1.9	20
Chlorobenzene	A	10.0	10.0	0.694694	0.6984219	0.5	0.5	20
Chloroethane	A	10.0	9.46	0.6669515	0.6308426	0.1	-5.4	20
Chloroform	A	10.0	9.70	1.454524	1.411012	0.2	-3.0	20
Chloromethane	A	10.0	9.33	0.815465	0.7606474	0.1	-6.7	20
cis-1,2-Dichloroethylene	A	10.0	9.97	1.350556	1.346296	0.1	-0.3	20
cis-1,3-Dichloropropylene	A	10.0	10.3	0.3490926	0.3584288	0.2	2.7	20
Cyclohexane	A	10.0	9.80	1.795318	1.758867	0.1	-2.0	20
Dibromochloromethane	A	10.0	10.3	0.1454692	0.1500401	0.1	3.1	20
Dibromomethane	A	10.0	10.1	8.387346E-02	8.470155E-02		1.0	20
Dichlorodifluoromethane	A	10.0	8.10	0.7492901	0.6070054	0.1	-19.0	20
Ethyl Benzene	A	10.0	9.96	1.263362	1.258192	0.1	-0.4	20
Hexachlorobutadiene	A	10.0	11.2	0.1656709	0.1846729		11.5	20
Isopropylbenzene	A	10.0	10.0	3.529169	3.54447	0.1	0.4	20
Methyl acetate	A	10.0	10.2	0.2206295	0.226138	0.1	2.5	20
Methyl tert-butyl ether (MTBE)	A	10.0	10.2	1.357067	1.38665	0.1	2.2	20
Methylcyclohexane	A	10.0	10.2	0.5191845	0.5302675	0.1	2.1	20
Methylene chloride	A	10.0	9.51	0.9739835	0.9260859	0.1	-4.9	20
n-Butylbenzene	A	10.0	10.9	2.544573	2.763721		8.6	20
n-Propylbenzene	A	10.0	10.3	4.0777	4.197845		2.9	20
o-Xylene	A	10.0	9.92	0.9404569	0.9330844	0.3	-0.8	20
p- & m- Xylenes	A	20.0	20.4	0.9359828	0.9564939	0.1	2.2	20
p-Isopropyltoluene	A	10.0	10.5	2.733067	2.875031		5.2	20
sec-Butylbenzene	A	10.0	10.5	3.349985	3.505568		4.6	20
Styrene	A	10.0	10.2	0.7440062	0.7560858	0.3	1.6	20
tert-Butyl alcohol (TBA)	A	50.0	60.1	2.141017E-02	2.278027E-02		20.2	20 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021620.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K1517	Injection Date:	11/14/23
Lab Sample ID:	S3K1517-CCV1	Injection Time:	11:13

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	10.2	2.365823	2.406603		1.7	20	
Tetrachloroethylene	A	10.0	6.24	0.5061744	0.3159422	0.2	-37.6	20	*
Toluene	A	10.0	9.91	1.12352	1.113745	0.4	-0.9	20	
trans-1,2-Dichloroethylene	A	10.0	9.55	1.227463	1.172753	0.1	-4.5	20	
trans-1,3-Dichloropropylene	A	10.0	10.4	0.2453267	0.2559534	0.1	4.3	20	
trans-1,4-dichloro-2-butene	A	10.0	10.3	0.3541428	0.364534		2.9	20	
Trichloroethylene	A	10.0	9.43	0.266782	0.2515694	0.2	-5.7	20	
Trichlorofluoromethane	A	10.0	9.42	1.165737	1.09784	0.1	-5.8	20	
Vinyl Chloride	A	10.0	9.72	1.037434	1.00885	0.1	-2.8	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178187.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1611	Injection Date:	11/15/23
Lab Sample ID:	S3K1611-CCV1	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	50.0	49.3	0.2384013	0.2350707		-1.4	20
1,1,1-Trichloroethane	A	50.0	45.2	1.834756	1.657633	0.1	-9.7	20
1,1,2,2-Tetrachloroethane	A	50.0	40.3	0.4714785	0.3802568	0.3	-19.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	45.3	1.234276	1.117886	0.1	-9.4	20
1,1,2-Trichloroethane	A	50.0	45.4	0.1782308	0.1616765	0.1	-9.3	20
1,1-Dichloroethane	A	50.0	44.3	2.090544	1.850455	0.2	-11.5	20
1,1-Dichloroethylene	A	50.0	41.2	1.862196	1.535054	0.1	-17.6	20
1,2,3-Trichlorobenzene	A	50.0	47.9	0.7449893	0.7132761		-4.3	20
1,2,3-Trichloropropane	A	50.0	41.5	0.1507392	0.1249925		-17.1	20
1,2,4-Trichlorobenzene	A	50.0	46.1	0.8714105	0.8392708	0.2	-7.8	20
1,2,4-Trimethylbenzene	A	50.0	42.5	2.541767	2.162349		-14.9	20
1,2-Dibromo-3-chloropropane	A	50.0	31.8	6.971226E-02	4.962259E-02	0.05	-36.4	20 *
1,2-Dibromoethane	A	50.0	46.4	0.1664536	0.1542997	0.1	-7.3	20
1,2-Dichlorobenzene	A	50.0	49.1	1.151762	1.131711	0.4	-1.7	20
1,2-Dichloroethane	A	50.0	43.2	1.227189	1.059614	0.1	-13.7	20
1,2-Dichloropropane	A	50.0	43.1	0.2555628	0.2202633	0.1	-13.8	20
1,3,5-Trimethylbenzene	A	50.0	42.0	2.654875	2.231674		-15.9	20
1,3-Dichlorobenzene	A	50.0	50.0	1.336811	1.335733	0.6	-0.08	20
1,4-Dichlorobenzene	A	50.0	50.0	1.307678	1.307036	0.5	-0.05	20
1,4-Dioxane	A	1000	874	1.682105E-03	1.470324E-03		-12.6	20
2-Butanone	A	50.0	35.6	9.308985E-02	0.0762607	0.1 *	-28.7	20 *
2-Hexanone	A	50.0	31.7	0.123174	9.260137E-02	0.1	-36.6	20 *
4-Methyl-2-pentanone	A	50.0	37.7	0.1675986	0.1263736	0.1	-24.6	20 *
Acetone	A	50.0	35.1	0.3653109	0.2565539	0.1	-29.8	20 *
Acrolein	A	50.0	40.6	0.1196337	0.0970257		-18.9	20
Acrylonitrile	A	50.0	40.7	0.2703492	0.2200675		-18.6	20
Benzene	A	50.0	44.7	4.678913	4.18078	0.5	-10.6	20
Bromochloromethane	A	50.0	42.0	0.8734785	0.7341489		-16.0	20
Bromodichloromethane	A	50.0	38.4	0.289214	0.249738	0.2	-23.2	20 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178187.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1611	Injection Date:	11/15/23
Lab Sample ID:	S3K1611-CCV1	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	41.6	0.1029174	0.1015033	0.1	-16.8	20	
Bromomethane	A	50.0	42.9	0.5401878	0.4633261	0.1	-14.2	20	
Carbon disulfide	A	50.0	41.4	3.289537	2.726552	0.1	-17.1	20	
Carbon tetrachloride	A	50.0	47.5	1.653649	1.569697	0.1	-5.1	20	
Chlorobenzene	A	50.0	50.0	0.7132255	0.7126874	0.5	-0.08	20	
Chloroethane	A	50.0	40.0	0.5526341	0.4426409	0.1	-19.9	20	
Chloroform	A	50.0	45.0	1.901031	1.711676	0.2	-10.0	20	
Chloromethane	A	50.0	34.7	1.599062	1.109571	0.1	-30.6	20	*
cis-1,2-Dichloroethylene	A	50.0	43.0	1.920328	1.652071	0.1	-14.0	20	
cis-1,3-Dichloropropylene	A	50.0	43.9	0.3619211	0.3180684	0.2	-12.1	20	
Cyclohexane	A	50.0	42.6	2.495634	2.124654	0.1	-14.9	20	
Dibromochloromethane	A	50.0	40.1	0.2000949	0.1861932	0.1	-19.8	20	
Dibromomethane	A	50.0	44.7	0.1205571	0.1077066		-10.7	20	
Dichlorodifluoromethane	A	50.0	28.6	1.320851	0.7546905	0.1	-42.9	20	*
Ethyl Benzene	A	50.0	45.1	1.329299	1.19987	0.1	-9.7	20	
Hexachlorobutadiene	A	50.0	46.6	0.5886137	0.5764222		-6.7	20	
Isopropylbenzene	A	50.0	43.0	3.290025	2.827477	0.1	-14.1	20	
Methyl acetate	A	50.0	39.0	0.6117517	0.4766932	0.1	-22.1	20	*
Methyl tert-butyl ether (MTBE)	A	50.0	41.4	2.297506	1.901793	0.1	-17.2	20	
Methylcyclohexane	A	50.0	44.3	0.5604706	0.4968831	0.1	-11.3	20	
Methylene chloride	A	50.0	41.0	1.552873	1.273217	0.1	-18.0	20	
n-Butylbenzene	A	50.0	42.0	3.255092	2.732121		-16.1	20	
n-Propylbenzene	A	50.0	42.3	3.854511	3.26177		-15.4	20	
o-Xylene	A	50.0	46.2	0.9963264	0.9209678	0.3	-7.6	20	
p- & m- Xylenes	A	100	92.7	0.9954121	0.9228869	0.1	-7.3	20	
p-Isopropyltoluene	A	50.0	44.5	3.055237	2.720207		-11.0	20	
sec-Butylbenzene	A	50.0	44.4	3.515725	3.12201		-11.2	20	
Styrene	A	50.0	48.2	0.7825233	0.7550458	0.3	-3.5	20	
tert-Butyl alcohol (TBA)	A	250	179	0.0660159	4.715778E-02		-28.6	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178187.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1611	Injection Date:	11/15/23
Lab Sample ID:	S3K1611-CCV1	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	45.0	2.383497	2.147665		-9.9	20	
Tetrachloroethylene	A	50.0	45.8	0.4064068	0.372137	0.2	-8.4	20	
Toluene	A	50.0	44.7	1.190786	1.065206	0.4	-10.5	20	
trans-1,2-Dichloroethylene	A	50.0	43.1	1.801772	1.554446	0.1	-13.7	20	
trans-1,3-Dichloropropylene	A	50.0	37.4	0.2880767	0.2489969	0.1	-25.1	20	*
trans-1,4-dichloro-2-butene	A	50.0	33.9	0.5160392	0.3882299		-32.2	20	*
Trichloroethylene	A	50.0	44.5	0.293835	0.2614662	0.2	-11.0	20	
Trichlorofluoromethane	A	50.0	42.7	1.619736	1.38365	0.1	-14.6	20	
Vinyl Chloride	A	50.0	37.1	1.048811	0.777291	0.1	-25.9	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178214.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1716	Injection Date:	11/16/23
Lab Sample ID:	S3K1716-CCV1	Injection Time:	10:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	50.0	53.5	0.2384013	0.2552707		7.1	20	
1,1,1-Trichloroethane	A	50.0	50.2	1.834756	1.840407	0.1	0.3	20	
1,1,2,2-Tetrachloroethane	A	50.0	40.9	0.4714785	0.3859837	0.3	-18.1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	50.8	1.234276	1.254665	0.1	1.7	20	
1,1,2-Trichloroethane	A	50.0	47.4	0.1782308	0.1689366	0.1	-5.2	20	
1,1-Dichloroethane	A	50.0	47.8	2.090544	1.999706	0.2	-4.3	20	
1,1-Dichloroethylene	A	50.0	46.6	1.862196	1.733754	0.1	-6.9	20	
1,2,3-Trichlorobenzene	A	50.0	51.1	0.7449893	0.761982		2.3	20	
1,2,3-Trichloropropane	A	50.0	43.0	0.1507392	0.1296019		-14.0	20	
1,2,4-Trichlorobenzene	A	50.0	49.7	0.8714105	0.9064541	0.2	-0.6	20	
1,2,4-Trimethylbenzene	A	50.0	44.0	2.541767	2.234648		-12.1	20	
1,2-Dibromo-3-chloropropane	A	50.0	34.4	6.971226E-02	5.374032E-02	0.05	-31.2	20	*
1,2-Dibromoethane	A	50.0	49.7	0.1664536	0.1655971	0.1	-0.5	20	
1,2-Dichlorobenzene	A	50.0	51.6	1.151762	1.18973	0.4	3.3	20	
1,2-Dichloroethane	A	50.0	45.2	1.227189	1.108453	0.1	-9.7	20	
1,2-Dichloropropane	A	50.0	44.6	0.2555628	0.227943	0.1	-10.8	20	
1,3,5-Trimethylbenzene	A	50.0	43.6	2.654875	2.315499		-12.8	20	
1,3-Dichlorobenzene	A	50.0	52.6	1.336811	1.406358	0.6	5.2	20	
1,4-Dichlorobenzene	A	50.0	52.6	1.307678	1.374311	0.5	5.1	20	
1,4-Dioxane	A	1000	817	1.682105E-03	1.374014E-03		-18.3	20	
2-Butanone	A	50.0	38.2	9.308985E-02	6.172636E-02	0.1	-23.6	20	*
2-Hexanone	A	50.0	31.7	0.123174	9.270256E-02	0.1	-36.6	20	*
4-Methyl-2-pentanone	A	50.0	37.7	0.1675986	0.126406	0.1	-24.6	20	*
Acetone	A	50.0	36.1	0.3653109	0.2635545	0.1	-27.9	20	*
Acrolein	A	50.0	43.3	0.1196337	0.1036423		-13.4	20	
Acrylonitrile	A	50.0	42.0	0.2703492	0.2271233		-16.0	20	
Benzene	A	50.0	48.9	4.678913	4.572942	0.5	-2.3	20	
Bromochloromethane	A	50.0	43.9	0.8734785	0.7670908		-12.2	20	
Bromodichloromethane	A	50.0	41.5	0.289214	0.2697635	0.2	-17.0	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178214.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1716	Injection Date:	11/16/23
Lab Sample ID:	S3K1716-CCV1	Injection Time:	10:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	49.4	0.1029174	0.1205188	0.1	-1.3	20	
Bromomethane	A	50.0	51.6	0.5401878	0.5575356	0.1	3.2	20	
Carbon disulfide	A	50.0	53.2	3.289537	3.496556	0.1	6.3	20	
Carbon tetrachloride	A	50.0	53.5	1.653649	1.769303	0.1	7.0	20	
Chlorobenzene	A	50.0	52.7	0.7132255	0.7516334	0.5	5.4	20	
Chloroethane	A	50.0	45.7	0.5526341	0.5051426	0.1	-8.6	20	
Chloroform	A	50.0	49.2	1.901031	1.870043	0.2	-1.6	20	
Chloromethane	A	50.0	44.8	1.599062	1.434021	0.1	-10.3	20	
cis-1,2-Dichloroethylene	A	50.0	46.2	1.920328	1.773608	0.1	-7.6	20	
cis-1,3-Dichloropropylene	A	50.0	47.2	0.3619211	0.3417973	0.2	-5.6	20	
Cyclohexane	A	50.0	45.2	2.495634	2.256431	0.1	-9.6	20	
Dibromochloromethane	A	50.0	45.1	0.2000949	0.2094497	0.1	-9.8	20	
Dibromomethane	A	50.0	46.8	0.1205571	0.1128029		-6.4	20	
Dichlorodifluoromethane	A	50.0	51.3	1.320851	1.35422	0.1	2.5	20	
Ethyl Benzene	A	50.0	46.6	1.329299	1.238363	0.1	-6.8	20	
Hexachlorobutadiene	A	50.0	49.6	0.5886137	0.6145559		-0.7	20	
Isopropylbenzene	A	50.0	44.6	3.290025	2.935207	0.1	-10.8	20	
Methyl acetate	A	50.0	40.6	0.6117517	0.4962618	0.1	-18.9	20	
Methyl tert-butyl ether (MTBE)	A	50.0	46.4	2.297506	2.133741	0.1	-7.1	20	
Methylcyclohexane	A	50.0	46.8	0.5604706	0.524366	0.1	-6.4	20	
Methylene chloride	A	50.0	43.1	1.552873	1.339453	0.1	-13.7	20	
n-Butylbenzene	A	50.0	43.1	3.255092	2.805437		-13.8	20	
n-Propylbenzene	A	50.0	43.5	3.854511	3.350231		-13.1	20	
o-Xylene	A	50.0	48.3	0.9963264	0.9628899	0.3	-3.4	20	
p- & m- Xylenes	A	100	96.1	0.9954121	0.9563308	0.1	-3.9	20	
p-Isopropyltoluene	A	50.0	46.2	3.055237	2.826275		-7.5	20	
sec-Butylbenzene	A	50.0	46.1	3.515725	3.242423		-7.8	20	
Styrene	A	50.0	51.0	0.7825233	0.7982262	0.3	2.0	20	
tert-Butyl alcohol (TBA)	A	250	194	0.0660159	5.111976E-02		-22.6	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	VOA No. 3	Calibration:	SJ30040
Lab File ID:	V3178214.D	Calibration Date:	10/28/23 08:00
Sequence:	S3K1716	Injection Date:	11/16/23
Lab Sample ID:	S3K1716-CCV1	Injection Time:	10:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	47.2	2.383497	2.248579		-5.7	20	
Tetrachloroethylene	A	50.0	49.7	0.4064068	0.4037219	0.2	-0.7	20	
Toluene	A	50.0	47.1	1.190786	1.121454	0.4	-5.8	20	
trans-1,2-Dichloroethylene	A	50.0	46.8	1.801772	1.68814	0.1	-6.3	20	
trans-1,3-Dichloropropylene	A	50.0	40.4	0.2880767	0.2683453	0.1	-19.3	20	
trans-1,4-dichloro-2-butene	A	50.0	35.5	0.5160392	0.4060984		-29.1	20	*
Trichloroethylene	A	50.0	47.0	0.293835	0.276506	0.2	-5.9	20	
Trichlorofluoromethane	A	50.0	49.8	1.619736	1.613772	0.1	-0.4	20	
Vinyl Chloride	A	50.0	45.6	1.048811	0.9566139	0.1	-8.8	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30028
Instrument: BNA #1
Calibration Date: 11/14/23 00:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.5965762	4.990789	7.42725	4.022625E-02			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.5434154	4.779488	7.1155	4.139911E-02			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.3098857	7.829316	6.245	1.414161E-02			20	
1,2-Dichlorobenzene	1.48786	6.142213	5.379	1.142005E-02			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.6529885	4.3632	9.0945	2.902726E-02			20	
1,3-Dichlorobenzene	1.541881	4.20464	5.19175	4.345552E-02			20	
1,4-Dichlorobenzene	1.570132	4.38469	5.2515	9.615633E-03			20	
2,3,4,6-Tetrachlorophenol	0.1116324	15.7356	8.5305	0.0268158			SPCC (0.01)	
2,4,5-Trichlorophenol	0.3424304	6.942936	7.263625	5.424773E-02			SPCC (0.2)	
2,4,6-Trichlorophenol	0.3098764	9.911776	7.223875	4.094524E-02			SPCC (0.2)	
2,4-Dichlorophenol	0.2669576	5.201447	6.164	1.211791E-02			SPCC (0.2)	
2,4-Dimethylphenol	0.3079197	7.674796	5.9825	4.408086E-02			SPCC (0.2)	
2,4-Dinitrophenol	6.148249E-02	36.86874	8.16675	5.388857E-02			SPCC (0.01)	*
2,4-Dinitrotoluene	0.344298	10.06548	8.337167	0.0453311			SPCC (0.2)	
2,6-Dinitrotoluene	0.2609901	7.142033	7.831	5.943532E-02			SPCC (0.2)	
2-Chloronaphthalene	1.127168	3.280853	7.46	1.186152E-02			SPCC (0.8)	
2-Chlorophenol	1.296521	6.246855	5.06	7.541344E-03			SPCC (0.8)	
2-Methylnaphthalene	0.731537	6.125773	6.954	6.925697E-03			SPCC (0.4)	
2-Methylphenol	1.094459	4.349896	5.42	1.800334E-02			SPCC (0.7)	
2-Nitroaniline	0.3414234	6.082328	7.56	3.176842E-02			SPCC (0.01)	
2-Nitrophenol	0.1240744	14.75725	5.966	2.381312E-02			SPCC (0.1)	
3- & 4-Methylphenols	1.667157	6.621554	5.5405	5.061217E-02			SPCC (0.6)	
3,3-Dichlorobenzidine	0.4612444	26.36743	14.85575	3.078534E-02			SPCC (0.01)	*
3-Nitroaniline	0.3040249	4.942553	8.041	0.046072			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	4.576422E-02	40.23223	8.912	8.058002E-02			SPCC (0.01)	*
4-Bromophenyl phenyl ether	0.1827855	6.459613	9.544	2.588831E-02			SPCC (0.1)	
4-Chloro-3-methylphenol	0.2921669	5.275081	6.7695	0.0368546			SPCC (0.2)	
4-Chloroaniline	0.4341384	4.73671	6.356	8.815696E-03			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.7033094	5.029448	8.850375	3.195296E-02			SPCC (0.4)	
4-Nitroaniline	0.3505497	4.607242	8.874	6.902494E-02			SPCC (0.01)	
4-Nitrophenol	0.2050556	19.27633	8.20825	6.121735E-02			SPCC (0.01)	
Acenaphthene	1.166522	5.428832	8.156375	2.599412E-02			SPCC (0.9)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30028
Instrument: BNA #1
Calibration Date: 11/14/23 00:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthylene	1.88372	4.694342	7.942	1.000816E-02			SPCC (0.9)	
Acetophenone	2.052236	3.802501	5.560875	4.515794E-02			SPCC (0.01)	
Aniline	1.898741	4.473391	4.964	6.497417E-02			SPCC ()	
Anthracene	1.070236	4.267889	10.16575	2.975855E-02			SPCC (0.7)	
Atrazine	0.1924034	10.62324	9.72225	1.660487E-02			SPCC (0.01)	
Benzaldehyde	1.120393	6.549843	4.879875	1.774585E-02			SPCC (0.01)	
Benzidine	0.6424361	33.55706	12.22417	2.050636E-02			20	*
Benzo(a)anthracene	1.203769	4.456062	14.83637	1.376503E-02			SPCC (0.8)	
Benzo(a)pyrene	0.9619685	10.8766	17.73625	0.0310818			SPCC (0.7)	
Benzo(b)fluoranthene	1.037445	8.530202	17.102	2.768282E-02			SPCC (0.7)	
Benzo(g,h,i)perylene	0.8408039	11.13907	20.2265	3.488329E-02			SPCC (0.5)	
Benzo(k)fluoranthene	1.132695	7.758828	17.16013	3.847219E-02			SPCC (0.7)	
Benzoic acid	0.1164274	14.00691	6.032167	0.2660437			20	
Benzyl alcohol	0.9116266	6.996636	5.339625	3.919251E-02			20	
Benzyl butyl phthalate	0.4534544	16.59531	13.81725	1.212903E-02			20	
Bis(2-chloroethoxy)methane	0.3890972	6.510999	6.0665	4.362203E-02			SPCC (0.3)	
Bis(2-chloroethyl)ether	1.365784	5.70087	5.013	9.535686E-03			SPCC (0.7)	
Bis(2-chloroisopropyl)ether	1.387277	4.575327	5.449	1.775543E-02			SPCC (0.01)	
Bis(2-ethylhexyl)phthalate	0.6575062	7.972548	15.17783	1.516327E-02			20	
Caprolactam	0.1085834	10.18104	6.675375	0.1604531			SPCC (0.01)	
Carbazole	1.000406	5.804803	10.37287	2.556573E-02			SPCC (0.01)	
Chrysene	1.214916	4.556478	14.90887	0.019299			SPCC (0.7)	
Dibenzo(a,h)anthracene	0.7535453	12.68619	19.84925	2.713697E-02			SPCC (0.4)	
Dibenzofuran	1.747773	5.970947	8.381	3.439862E-02			SPCC (0.8)	
Diethyl phthalate	1.359276	3.784939	8.66675	5.218885E-02			SPCC (0.01)	
Dimethyl phthalate	1.339746	5.240713	7.752625	3.569125E-02			SPCC (0.01)	
Di-n-butyl phthalate	1.07708	11.39024	10.92925	4.402551E-03			SPCC (0.01)	
Di-n-octyl phthalate	0.9417525	12.27634	16.617	0.0104002			SPCC (0.01)	
Diphenylamine	0.4624684	3.741372	9.02375	0.0296007			20	
Fluoranthene	1.19393	6.655264	11.9305	2.334986E-02			SPCC (0.6)	
Fluorene	1.471419	4.517909	8.864125	2.191181E-02			SPCC (0.9)	
Hexachlorobenzene	8.677032E-02	5.221815	9.607	3.501393E-02			SPCC (0.1)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30028
Instrument: BNA #1
Calibration Date: 11/14/23 00:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Hexachlorobutadiene	0.1862669	8.121459	6.414	7.942242E-03			SPCC (0.01)	
Hexachlorocyclopentadiene	0.2839022	13.84247	7.101875	3.916658E-02			SPCC (0.05)	
Hexachloroethane	0.5904742	4.973069	5.658	2.369238E-02			SPCC (0.3)	
Indeno(1,2,3-cd)pyrene	0.6905067	12.91767	19.78637	3.230038E-02			SPCC (0.5)	
Isophorone	0.6820241	4.435099	5.89825	4.334956E-02			SPCC (0.4)	
Naphthalene	1.079355	7.652608	6.321	2.098023E-02			SPCC (0.7)	
Nitrobenzene	0.3617285	4.384214	5.70575	3.559635E-02			SPCC (0.2)	
N-Nitrosodimethylamine	0.9364879	5.420172	3.0385	9.091855E-02			20	
N-nitroso-di-n-propylamine	1.169343	4.158813	5.556	4.831277E-02			SPCC (0.5)	
N-Nitrosodiphenylamine	0.1636602	5.663404	9.023125	3.661842E-02			SPCC (0.01)	
Pentachlorophenol	8.231466E-02	25.38861	9.8295	2.948056E-02			SPCC (0.05)	*
Phenanthrene	1.085006	3.662732	10.10025	3.395994E-02			SPCC (0.7)	
Phenol	1.663286	3.759593	4.917375	5.563156E-02			SPCC (0.8)	
Pyrene	1.267692	4.99408	12.34388	2.211153E-02			SPCC (0.6)	
Pyridine	1.678104	5.394877	3.0765	0.1392414			20	
SURR: 2,4,6-Tribromophenol	5.970133E-02	18.87912	9.221625	0.0366671			20	
SURR: 2-Fluorobiphenyl	1.328191	5.799304	7.3155	1.779291E-02			20	
SURR: 2-Fluorophenol	1.190346	5.873885	4.147	1.995338E-02			20	
SURR: Nitrobenzene-d5	0.34736	3.929145	5.68925	5.888454E-02			20	
SURR: Phenol-d6	1.637347	4.705793	4.905875	6.288121E-02			20	
SURR: Terphenyl-d14	0.9305411	4.382482	12.71775	2.397397E-02			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30019
Laboratory ID: S3K1018-SCV1
Sequence: S3K1018
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	26.8	-10.8	30.00
1,2-Dichlorobenzene	30.0	26.5	-11.6	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.2	-9.3	30.00
1,3-Dichlorobenzene	30.0	26.6	-11.3	30.00
1,4-Dichlorobenzene	30.0	26.3	-12.5	30.00
2,3,4,6-Tetrachlorophenol	30.0	31.6	5.2	30.00
2,4,5-Trichlorophenol	30.0	25.9	-13.7	30.00
2,4,6-Trichlorophenol	30.0	26.9	-10.3	30.00
2,4-Dichlorophenol	30.0	28.2	-6.1	30.00
2,4-Dimethylphenol	30.0	22.2	-26.0	30.00
2,4-Dinitrophenol	30.0	32.2	7.2	30.00
2,4-Dinitrotoluene	30.0	28.8	-4.1	30.00
2,6-Dinitrotoluene	30.0	30.1	0.3	30.00
2-Chloronaphthalene	30.0	26.7	-11.1	30.00
2-Chlorophenol	30.0	27.6	-7.9	30.00
2-Methylnaphthalene	30.0	27.5	-8.3	30.00
2-Methylphenol	30.0	18.1	-39.6 *	30.00
2-Nitroaniline	30.0	28.5	-5.0	30.00
2-Nitrophenol	30.0	29.2	-2.8	30.00
3- & 4-Methylphenols	30.0	23.9	-20.2	30.00
3-Nitroaniline	30.0	28.8	-4.2	30.00
4,6-Dinitro-2-methylphenol	30.0	29.4	-1.9	30.00
4-Bromophenyl phenyl ether	30.0	25.2	-16.1	30.00
4-Chloro-3-methylphenol	30.0	29.1	-3.0	30.00
4-Chloroaniline	30.0	26.5	-11.6	30.00
4-Chlorophenyl phenyl ether	30.0	25.3	-15.5	30.00
4-Nitroaniline	30.0	28.1	-6.3	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30019
Laboratory ID: S3K1018-SCV1
Sequence: S3K1018
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	27.1	-9.6	30.00
Hexachlorobutadiene	30.0	26.3	-12.4	30.00
Hexachlorocyclopentadiene	30.0	16.1	-46.4 *	30.00
Hexachloroethane	30.0	26.7	-10.9	30.00
Indeno(1,2,3-cd)pyrene	30.0	28.7	-4.3	30.00
Isophorone	30.0	29.7	-1.1	30.00
Naphthalene	30.0	28.0	-6.6	30.00
Nitrobenzene	30.0	28.4	-5.3	30.00
N-Nitrosodimethylamine	30.0	27.6	-8.0	30.00
N-nitroso-di-n-propylamine	30.0	26.7	-10.9	30.00
N-Nitrosodiphenylamine	30.0	30.7	2.5	30.00
Pentachlorophenol	30.0	26.4	-12.0	30.00
Phenanthrene	30.0	26.3	-12.4	30.00
Phenol	30.0	27.8	-7.3	30.00
Pyrene	30.0	26.9	-10.4	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30028
Laboratory ID: S3K1612-SCV1
Sequence: S3K1612
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	26.6	-11.4	30.00
1,2-Dichlorobenzene	30.0	25.2	-15.8	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.1	-13.0	30.00
1,3-Dichlorobenzene	30.0	27.0	-9.9	30.00
1,4-Dichlorobenzene	30.0	26.6	-11.2	30.00
2,3,4,6-Tetrachlorophenol	30.0	35.5	18.2	30.00
2,4,5-Trichlorophenol	30.0	31.4	4.8	30.00
2,4,6-Trichlorophenol	30.0	29.0	-3.2	30.00
2,4-Dichlorophenol	30.0	28.4	-5.3	30.00
2,4-Dimethylphenol	30.0	19.7	-34.3 *	30.00
2,4-Dinitrophenol	30.0	42.9	43.1 *	30.00
2,4-Dinitrotoluene	30.0	33.8	12.6	30.00
2,6-Dinitrotoluene	30.0	32.5	8.3	30.00
2-Chloronaphthalene	30.0	27.6	-8.1	30.00
2-Chlorophenol	30.0	27.4	-8.8	30.00
2-Methylnaphthalene	30.0	26.6	-11.4	30.00
2-Methylphenol	30.0	26.4	-12.2	30.00
2-Nitroaniline	30.0	31.0	3.3	30.00
2-Nitrophenol	30.0	34.0	13.5	30.00
3- & 4-Methylphenols	30.0	24.2	-19.5	30.00
3-Nitroaniline	30.0	30.9	3.0	30.00
4,6-Dinitro-2-methylphenol	30.0	39.3	30.9 *	30.00
4-Bromophenyl phenyl ether	30.0	27.0	-9.9	30.00
4-Chloro-3-methylphenol	30.0	29.4	-1.9	30.00
4-Chloroaniline	30.0	25.4	-15.3	30.00
4-Chlorophenyl phenyl ether	30.0	28.0	-6.6	30.00
4-Nitroaniline	30.0	30.5	1.6	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SK30028
Laboratory ID: S3K1612-SCV1
Sequence: S3K1612
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	26.6	-11.3	30.00
Hexachlorobutadiene	30.0	27.6	-8.0	30.00
Hexachlorocyclopentadiene	30.0	17.3	-42.2 *	30.00
Hexachloroethane	30.0	25.7	-14.3	30.00
Indeno(1,2,3-cd)pyrene	30.0	30.8	2.7	30.00
Isophorone	30.0	28.9	-3.8	30.00
Naphthalene	30.0	27.5	-8.3	30.00
Nitrobenzene	30.0	27.0	-10.1	30.00
N-Nitrosodimethylamine	30.0	25.1	-16.2	30.00
N-nitroso-di-n-propylamine	30.0	27.2	-9.4	30.00
N-Nitrosodiphenylamine	30.0	31.6	5.2	30.00
Pentachlorophenol	30.0	34.0	13.3	30.00
Phenanthrene	30.0	28.1	-6.3	30.00
Phenol	30.0	25.6	-14.5	30.00
Pyrene	30.0	28.2	-6.0	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	BNA#2	Calibration:	SK30019
Lab File ID:	E20017450.D	Calibration Date:	11/09/23 00:49
Sequence:	S3K2010	Injection Date:	11/17/23
Lab Sample ID:	S3K2010-CCV1	Injection Time:	18:46

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	25.5	0.7664482	0.6520965	0.01	-14.9	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	30.3	0.3688598	0.3725855	0.01	1.0	20	
1,2,4-Trichlorobenzene	A	30.0	28.6	0.2531788	0.2416401		-4.6	20	
1,2-Dichlorobenzene	A	30.0	27.8	1.630342	1.511111		-7.3	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	24.1	1.028584	0.826168		-19.7	20	
1,3-Dichlorobenzene	A	30.0	27.7	1.696196	1.566909		-7.6	20	
1,4-Dichlorobenzene	A	30.0	27.7	1.732304	1.598511		-7.7	20	
2,3,4,6-Tetrachlorophenol	A	30.0	26.8	0.1664627	0.1487432	0.01	-10.6	20	
2,4,5-Trichlorophenol	A	30.0	30.4	0.3360396	0.340299	0.2	1.3	20	
2,4,6-Trichlorophenol	A	30.0	30.2	0.3036131	0.3052319	0.2	0.5	20	
2,4-Dichlorophenol	A	30.0	29.7	0.2548553	0.2522984	0.2	-1.0	20	
2,4-Dimethylphenol	A	30.0	27.8	0.3075434	0.2852246	0.2	-7.3	20	
2,4-Dinitrophenol	A	30.0	42.6	0.1029074	0.1461241	0.01	42.0	20	*
2,4-Dinitrotoluene	A	30.0	31.5	0.3948777	0.4149669	0.2	5.1	20	
2,6-Dinitrotoluene	A	30.0	31.2	0.2942408	0.3065379	0.2	4.2	20	
2-Chloronaphthalene	A	30.0	27.0	1.200568	1.082079	0.8	-9.9	20	
2-Chlorophenol	A	30.0	27.6	1.626037	1.49781	0.8	-7.9	20	
2-Methylnaphthalene	A	30.0	26.9	0.7218267	0.64627	0.4	-10.5	20	
2-Methylphenol	A	30.0	28.1	1.285189	1.829265	0.7	42.3	20	*
2-Nitroaniline	A	30.0	29.6	0.4448219	0.438862	0.01	-1.3	20	
2-Nitrophenol	A	30.0	30.6	0.1729887	0.176522	0.1	2.0	20	
3- & 4-Methylphenols	A	30.0	28.1	1.95298	1.829265	0.6	-6.3	20	
3,3-Dichlorobenzidine	A	30.0	30.8	0.502212	0.5150189	0.01	2.6	20	
3-Nitroaniline	A	30.0	29.7	0.391633	0.3872	0.01	-1.1	20	
4,6-Dinitro-2-methylphenol	A	30.0	39.2	9.507267E-02	0.1240909	0.01	30.5	20	*
4-Bromophenyl phenyl ether	A	30.0	29.1	0.1593186	0.1545717	0.1	-3.0	20	
4-Chloro-3-methylphenol	A	30.0	28.4	0.2980765	0.2824222	0.2	-5.3	20	
4-Chloroaniline	A	30.0	27.4	0.4446703	0.405518	0.01	-8.8	20	
4-Chlorophenyl phenyl ether	A	30.0	28.5	0.5586489	0.5312107	0.4	-4.9	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	BNA #1	Calibration:	SK30028
Lab File ID:	BNA1024447.D	Calibration Date:	11/14/23 00:01
Sequence:	S3K2052	Injection Date:	11/18/23
Lab Sample ID:	S3K2052-CCV1	Injection Time:	11:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	29.3	0.5965762	0.5822864	0.01	-2.4	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	30.8	0.5434154	0.5569852	0.01	2.5	20	
1,2,4-Trichlorobenzene	A	30.0	27.5	0.3098857	0.2843553		-8.2	20	
1,2-Dichlorobenzene	A	30.0	28.1	1.48786	1.392124		-6.4	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	32.0	0.6529885	0.6958302		6.6	20	
1,3-Dichlorobenzene	A	30.0	27.6	1.541881	1.420155		-7.9	20	
1,4-Dichlorobenzene	A	30.0	30.2	1.570132	1.578032		0.5	20	
2,3,4,6-Tetrachlorophenol	A	30.0	40.5	0.1116324	0.1506684	0.01	35.0	20	*
2,4,5-Trichlorophenol	A	30.0	37.7	0.3424304	0.4303184	0.2	25.7	20	*
2,4,6-Trichlorophenol	A	30.0	34.1	0.3098764	0.3526769	0.2	13.8	20	
2,4-Dichlorophenol	A	30.0	30.2	0.2669576	0.2691079	0.2	0.8	20	
2,4-Dimethylphenol	A	30.0	26.6	0.3079197	0.2730603	0.2	-11.3	20	
2,4-Dinitrophenol	A	30.0	73.4	6.148249E-02	0.1504852	0.01	145	20	*
2,4-Dinitrotoluene	A	30.0	35.5	0.344298	0.4074953	0.2	18.4	20	
2,6-Dinitrotoluene	A	30.0	35.1	0.2609901	0.3054735	0.2	17.0	20	
2-Chloronaphthalene	A	30.0	29.8	1.127168	1.11991	0.8	-0.6	20	
2-Chlorophenol	A	30.0	31.7	1.296521	1.371161	0.8	5.8	20	
2-Methylnaphthalene	A	30.0	29.0	0.731537	0.7059406	0.4	-3.5	20	
2-Methylphenol	A	30.0	30.8	1.094459	1.12528	0.7	2.8	20	
2-Nitroaniline	A	30.0	33.5	0.3414234	0.3810305	0.01	11.6	20	
2-Nitrophenol	A	30.0	41.5	0.1240744	0.171528	0.1	38.2	20	*
3- & 4-Methylphenols	A	30.0	29.0	1.667157	1.612358	0.6	-3.3	20	
3,3-Dichlorobenzidine	A	30.0	33.6	0.4612444	0.5166248	0.01	12.0	20	
3-Nitroaniline	A	30.0	35.0	0.3040249	0.3542068	0.01	16.5	20	
4,6-Dinitro-2-methylphenol	A	30.0	55.3	4.576422E-02	8.437393E-02	0.01	84.4	20	*
4-Bromophenyl phenyl ether	A	30.0	28.6	0.1827855	0.173993	0.1	-4.8	20	
4-Chloro-3-methylphenol	A	30.0	29.3	0.2921669	0.2849969	0.2	-2.5	20	
4-Chloroaniline	A	30.0	28.3	0.4341384	0.4090709	0.01	-5.8	20	
4-Chlorophenyl phenyl ether	A	30.0	31.6	0.7033094	0.7413101	0.4	5.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	BNA #1	Calibration:	SK30028
Lab File ID:	BNA1024447.D	Calibration Date:	11/14/23 00:01
Sequence:	S3K2052	Injection Date:	11/18/23
Lab Sample ID:	S3K2052-CCV1	Injection Time:	11:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	33.8	0.3505497	0.3945031	0.01	12.5	20	
4-Nitrophenol	A	30.0	35.6	0.2050556	0.2430994	0.01	18.6	20	
Acenaphthene	A	30.0	31.6	1.166522	1.22714	0.9	5.2	20	
Acenaphthylene	A	30.0	32.0	1.88372	2.00766	0.9	6.6	20	
Acetophenone	A	30.0	29.8	2.052236	2.037998	0.01	-0.7	20	
Aniline	A	30.0	29.7	1.898741	1.880686		-1.0	20	
Anthracene	A	30.0	28.3	1.070236	1.010782	0.7	-5.6	20	
Atrazine	A	30.0	32.7	0.1924034	0.2098404	0.01	9.1	20	
Benzaldehyde	A	30.0	30.1	1.120393	1.125178	0.01	0.4	20	
Benzidine	A	30.0	26.0	0.6424361	0.5574223		-13.2	20	
Benzo(a)anthracene	A	30.0	31.8	1.203769	1.274769	0.8	5.9	20	
Benzo(a)pyrene	A	30.0	35.9	0.9619685	1.150318	0.7	19.6	20	
Benzo(b)fluoranthene	A	30.0	32.4	1.037445	1.119848	0.7	7.9	20	
Benzo(g,h,i)perylene	A	30.0	33.7	0.8408039	0.9436492	0.5	12.2	20	
Benzo(k)fluoranthene	A	30.0	32.5	1.132695	1.226159	0.7	8.3	20	
Benzoic acid	A	30.0	45.0	0.1164274	0.1748216		50.2	20	*
Benzyl alcohol	A	30.0	31.8	0.9116266	0.9660542		6.0	20	
Benzyl butyl phthalate	A	30.0	35.6	0.4534544	0.5373894		18.5	20	
Bis(2-chloroethoxy)methane	A	30.0	28.5	0.3890972	0.369753	0.3	-5.0	20	
Bis(2-chloroethyl)ether	A	30.0	29.2	1.365784	1.328309	0.7	-2.7	20	
Bis(2-chloroisopropyl)ether	A	30.0	29.5	1.387277	1.364473	0.01	-1.6	20	
Bis(2-ethylhexyl)phthalate	A	30.0	35.9	0.6575062	0.7862133		19.6	20	
Caprolactam	A	30.0	29.1	0.1085834	0.1052689	0.01	-3.1	20	
Carbazole	A	30.0	29.7	1.000406	0.9901971	0.01	-1.0	20	
Chrysene	A	30.0	30.3	1.214916	1.227086	0.7	1.0	20	
Dibenzo(a,h)anthracene	A	30.0	38.7	0.7535453	0.9722764	0.4	29.0	20	*
Dibenzofuran	A	30.0	30.4	1.747773	1.768204	0.8	1.2	20	
Diethyl phthalate	A	30.0	31.5	1.359276	1.425524	0.01	4.9	20	
Dimethyl phthalate	A	30.0	31.7	1.339746	1.416914	0.01	5.8	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	BNA #1	Calibration:	SK30028
Lab File ID:	BNA1024447.D	Calibration Date:	11/14/23 00:01
Sequence:	S3K2052	Injection Date:	11/18/23
Lab Sample ID:	S3K2052-CCV1	Injection Time:	11:41

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	32.6	1.07708	1.171166	0.01	8.7	20	
Di-n-octyl phthalate	A	30.0	40.7	0.9417525	1.276579	0.01	35.6	20	*
Diphenylamine	A	30.0	28.8	0.4624684	0.4435682		-4.1		
Fluoranthene	A	30.0	28.3	1.19393	1.125497	0.6	-5.7	20	
Fluorene	A	30.0	30.0	1.471419	1.471443	0.9	0.002	20	
Hexachlorobenzene	A	30.0	26.7	8.677032E-02	7.726837E-02	0.1	-11.0	20	
Hexachlorobutadiene	A	30.0	26.4	0.1862669	0.1641954	0.01	-11.8	20	
Hexachlorocyclopentadiene	A	30.0	35.4	0.2839022	0.3354513	0.05	18.2	20	
Hexachloroethane	A	30.0	27.8	0.5904742	0.5482267	0.3	-7.2	20	
Indeno(1,2,3-cd)pyrene	A	30.0	39.8	0.6905067	0.9151277	0.5	32.5	20	*
Isophorone	A	30.0	28.3	0.6820241	0.6427593	0.4	-5.8	20	
Naphthalene	A	30.0	26.8	1.079355	0.966167	0.7	-10.5	20	
Nitrobenzene	A	30.0	27.0	0.3617285	0.3257828	0.2	-9.9	20	
N-Nitrosodimethylamine	A	30.0	31.3	0.9364879	0.9779846		4.4	20	
N-nitroso-di-n-propylamine	A	30.0	30.0	1.169343	1.169134	0.5	-0.02	20	
N-Nitrosodiphenylamine	A	30.0	29.2	0.1636602	0.1591242	0.01	-2.8	20	
Pentachlorophenol	A	30.0	44.2	8.231466E-02	0.1211482	0.05	47.2	20	*
Phenanthrene	A	30.0	28.3	1.085006	1.023925	0.7	-5.6	20	
Phenol	A	30.0	30.3	1.663286	1.681596	0.8	1.1	20	
Pyrene	A	30.0	29.0	1.267692	1.226508	0.6	-3.2	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Sequence: S3K1906
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Field Blank PFAS (23K0753-06)			Lab File ID: QQQ32405.d		Analyzed: 11/20/23 06:31			
M3PFBS	18.0	88.8	25 - 150	5.16875	5.154708	0.0140	+/-1.00	
M5PFHxA	19.3	107	25 - 150	6.000717	5.896742	0.1040	+/-1.00	
M4PFHpA	19.3	165	25 - 150	6.825933	6.612394	0.2135	+/-1.00	*
M3PFHxS	18.3	153	25 - 150	6.9268	6.69831	0.2285	+/-1.00	*
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	19.3	128	25 - 150	7.520184	7.228673	0.2915	+/-1.00	
M6PFDA	9.63	143	25 - 150	8.6706	8.325208	0.3454	+/-1.00	
M7PFUdA	9.63	132	25 - 150	9.133984	8.807389	0.3266	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	9.63	123	25 - 150	9.54995	9.254519	0.2954	+/-1.00	
M2PFTeDA	9.63	57.2	10 - 150	10.21183	10.01288	0.1990	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	77.3	0.625	25 - 150	1.168083	1.219727	-0.0516	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	18.5	126	25 - 150	8.160267	7.829089	0.3312	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	38.6	6.93	25 - 150	4.375533	4.446487	-0.0710	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	19.3	103	10 - 150	9.1291	8.806458	0.3226	+/-1.00	
d3-N-MeFOSAA	38.6	75.1	25 - 150	8.873266	8.533981	0.3393	+/-1.00	
d5-N-EtFOSAA	38.6	79.5	25 - 150	9.11445	8.785462	0.3290	+/-1.00	
M2-6:2 FTS	36.7	91.7	25 - 200	7.454533	7.170869	0.2837	+/-1.00	
M2-8:2 FTS	37.0	84.4	25 - 200	8.623466	8.28256	0.3409	+/-1.00	
M9PFNA	9.63	144	25 - 150	8.133433	7.796514	0.3369	+/-1.00	
M2-4:2 FTS	36.2	87.9	25 - 150	5.925617	5.828181	0.0974	+/-1.00	
d-N-MeFOSA	19.3	84.9	25 - 150	9.952333	9.706333	0.2460	+/-1.00	
d-N-EtFOSA	19.3	56.1	25 - 150	10.21748	10.01312	0.2044	+/-1.00	
M3HFPO-DA	77.3	113	25 - 150	6.290767	6.155542	0.1352	+/-1.00	
d9-N-EtFOSE	193	32.5	25 - 150	10.17808	9.96349	0.2146	+/-1.00	
d7-N-MeFOSE	193	46.2	25 - 150	9.91995	9.668704	0.2512	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Sequence: S3K2163
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP7 (0-2.5ft) (23K0753-01)			Lab File ID: QQQ32443.d		Analyzed: 11/21/23 12:40			
M3PFBS	2.19	71.3	25 - 150	5.177983	5.154708	0.0233	+/-1.00	
M5PFHxA	2.35	86.7	25 - 150	5.991483	5.896742	0.0947	+/-1.00	
M4PFHpA	2.35	120	25 - 150	6.825933	6.612394	0.2135	+/-1.00	
M3PFHxS	2.22	115	25 - 150	6.9268	6.69831	0.2285	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.35	92.0	25 - 150	7.510917	7.228673	0.2822	+/-1.00	
M6PFDA	1.17	105	25 - 150	8.661333	8.325208	0.3361	+/-1.00	
M7PFUdA	1.17	96.0	25 - 150	9.115417	8.807389	0.3080	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.17	76.6	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	1.17	65.7	10 - 150	10.14727	10.01288	0.1344	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.41	9.47	25 - 150	1.23235	1.219727	0.0126	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.25	104	25 - 150	8.160267	7.829089	0.3312	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.69	28.6	25 - 150	4.4315	4.446487	-0.0150	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.35	67.2	10 - 150	9.073317	8.806458	0.2669	+/-1.00	
d3-N-MeFOSAA	4.69	79.1	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	4.69	74.2	25 - 150	9.08665	8.785462	0.3012	+/-1.00	
M2-6:2 FTS	4.46	112	25 - 200	7.454533	7.170869	0.2837	+/-1.00	
M2-8:2 FTS	4.51	141	25 - 200	8.623466	8.28256	0.3409	+/-1.00	
M9PFNA	1.17	116	25 - 150	8.12415	7.796514	0.3276	+/-1.00	
M2-4:2 FTS	4.40	70.5	25 - 150	5.925617	5.828181	0.0974	+/-1.00	
d-N-MeFOSA	2.35	41.1	25 - 150	9.877483	9.706333	0.1711	+/-1.00	
d-N-EtFOSA	2.35	50.6	25 - 150	10.135	10.01312	0.1219	+/-1.00	
M3HFPO-DA	9.41	92.8	25 - 150	6.290767	6.155542	0.1352	+/-1.00	
d9-N-EtFOSE	23.5	43.9	25 - 150	10.0946	9.96349	0.1311	+/-1.00	
d7-N-MeFOSE	23.5	44.6	25 - 150	9.846117	9.668704	0.1774	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Sequence:	S3K2163	Instrument:	LCQQQ
		Calibration:	SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP7 (12-14ft) (23K0753-02)			Lab File ID: QQQ32444.d		Analyzed: 11/21/23 12:56			
M3PFBS	2.25	78.6	25 - 150	5.177967	5.154708	0.0233	+/-1.00	
M5PFHxA	2.42	94.3	25 - 150	5.991483	5.896742	0.0947	+/-1.00	
M4PFHpA	2.42	106	25 - 150	6.80745	6.612394	0.1951	+/-1.00	
M3PFHxS	2.29	133	25 - 150	6.908283	6.69831	0.2100	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.42	96.5	25 - 150	7.50165	7.228673	0.2730	+/-1.00	
M6PFDA	1.21	129	25 - 150	8.652066	8.325208	0.3269	+/-1.00	
M7PFUdA	1.21	97.5	25 - 150	9.10615	8.807389	0.2988	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.21	81.4	25 - 150	9.494117	9.254519	0.2396	+/-1.00	
M2PFTeDA	1.21	74.8	10 - 150	10.13805	10.01288	0.1252	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.70	5.10	25 - 150	1.23235	1.219727	0.0126	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.32	132	25 - 150	8.1504	7.829089	0.3213	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.84	23.0	25 - 150	4.421484	4.446487	-0.0250	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.42	66.1	10 - 150	9.073317	8.806458	0.2669	+/-1.00	
d3-N-MeFOSAA	4.84	77.7	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	4.84	70.1	25 - 150	9.077383	8.785462	0.2919	+/-1.00	
M2-6:2 FTS	4.60	94.5	25 - 200	7.445267	7.170869	0.2744	+/-1.00	
M2-8:2 FTS	4.65	106	25 - 200	8.6142	8.28256	0.3316	+/-1.00	
M9PFNA	1.21	109	25 - 150	8.12415	7.796514	0.3276	+/-1.00	
M2-4:2 FTS	4.54	52.8	25 - 150	5.916383	5.828181	0.0882	+/-1.00	
d-N-MeFOSA	2.42	42.5	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.42	50.6	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	9.70	91.5	25 - 150	6.281517	6.155542	0.1260	+/-1.00	
d9-N-EtFOSE	24.2	46.1	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	24.2	49.6	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Sequence: S3K2163
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP7 (14-18ft) (23K0753-03)			Lab File ID: QQQ32445.d		Analyzed: 11/21/23 13:12			
M3PFBS	2.83	53.8	25 - 150	5.177967	5.154708	0.0233	+/-1.00	
M5PFHxA	3.04	70.8	25 - 150	5.991483	5.896742	0.0947	+/-1.00	
M4PFHpA	3.04	117	25 - 150	6.816683	6.612394	0.2043	+/-1.00	
M3PFHxS	2.88	121	25 - 150	6.917533	6.69831	0.2192	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.04	101	25 - 150	7.510917	7.228673	0.2822	+/-1.00	
M6PFDA	1.52	110	25 - 150	8.661333	8.325208	0.3361	+/-1.00	
M7PFUdA	1.52	106	25 - 150	9.10615	8.807389	0.2988	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.52	86.1	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	1.52	68.5	10 - 150	10.14727	10.01288	0.1344	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.2	2.16	25 - 150	1.223167	1.219727	0.0034	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.91	105	25 - 150	8.160267	7.829089	0.3312	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.08	10.3	25 - 150	4.421484	4.446487	-0.0250	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.04	73.1	10 - 150	9.082583	8.806458	0.2761	+/-1.00	
d3-N-MeFOSAA	6.08	76.0	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	6.08	85.6	25 - 150	9.08665	8.785462	0.3012	+/-1.00	
M2-6:2 FTS	5.78	84.8	25 - 200	7.445267	7.170869	0.2744	+/-1.00	
M2-8:2 FTS	5.84	88.8	25 - 200	8.623466	8.28256	0.3409	+/-1.00	
M9PFNA	1.52	111	25 - 150	8.12415	7.796514	0.3276	+/-1.00	
M2-4:2 FTS	5.71	57.1	25 - 150	5.916383	5.828181	0.0882	+/-1.00	
d-N-MeFOSA	3.04	49.3	25 - 150	9.877483	9.706333	0.1711	+/-1.00	
d-N-EtFOSA	3.04	54.7	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	12.2	68.6	25 - 150	6.281517	6.155542	0.1260	+/-1.00	
d9-N-EtFOSE	30.4	49.0	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	30.4	49.5	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Sequence: S3K2163
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP7 (27.5-30ft) (23K0753-04)			Lab File ID: QQQ32446.d		Analyzed: 11/21/23 13:28			
M3PFBS	2.23	72.4	25 - 150	5.177967	5.154708	0.0233	+/-1.00	
M5PFHxA	2.40	92.6	25 - 150	5.991483	5.896742	0.0947	+/-1.00	
M4PFHpA	2.40	130	25 - 150	6.816683	6.612394	0.2043	+/-1.00	
M3PFHxS	2.27	129	25 - 150	6.917533	6.69831	0.2192	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.40	94.1	25 - 150	7.510917	7.228673	0.2822	+/-1.00	
M6PFDA	1.20	119	25 - 150	8.652066	8.325208	0.3269	+/-1.00	
M7PFUdA	1.20	120	25 - 150	9.10615	8.807389	0.2988	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.20	93.6	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	1.20	64.2	10 - 150	10.13805	10.01288	0.1252	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.61	2.77	25 - 150	1.223167	1.219727	0.0034	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.30	77.3	25 - 150	8.160267	7.829089	0.3312	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.79	14.3	25 - 150	4.421484	4.446487	-0.0250	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.40	69.9	10 - 150	9.082583	8.806458	0.2761	+/-1.00	
d3-N-MeFOSAA	4.79	54.0	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	4.79	56.4	25 - 150	9.08665	8.785462	0.3012	+/-1.00	
M2-6:2 FTS	4.56	79.6	25 - 200	7.445267	7.170869	0.2744	+/-1.00	
M2-8:2 FTS	4.60	72.4	25 - 200	8.623466	8.28256	0.3409	+/-1.00	
M9PFNA	1.20	112	25 - 150	8.12415	7.796514	0.3276	+/-1.00	
M2-4:2 FTS	4.50	72.7	25 - 150	5.916383	5.828181	0.0882	+/-1.00	
d-N-MeFOSA	2.40	53.7	25 - 150	9.86825	9.706333	0.1619	+/-1.00	
d-N-EtFOSA	2.40	53.5	25 - 150	10.12578	10.01312	0.1127	+/-1.00	
M3HFPO-DA	9.61	97.5	25 - 150	6.281517	6.155542	0.1260	+/-1.00	
d9-N-EtFOSE	24.0	43.2	25 - 150	10.08538	9.96349	0.1219	+/-1.00	
d7-N-MeFOSE	24.0	48.7	25 - 150	9.8369	9.668704	0.1682	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Water		
Batch:	BK31244	Laboratory ID:	BK31244-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	250.01 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	151	134	88.5	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	307	327	106	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	300	281	93.7	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	304	326	107	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	1600	1390	87.1	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	1600	1550	97.0	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	320	293	91.4	50 - 150
9CL-PF3ONS	150	168	112	50 - 150
ADONA	151	149	98.8	50 - 150
HFPO-DA (Gen-X)	160	140	87.3	50 - 150
N-EtFOSA	80.0	87.8	110	50 - 150
N-EtFOSAA	80.0	87.4	109	50 - 150
N-EtFOSE	800	727	90.9	50 - 150
N-MeFOSA	80.0	74.2	92.8	50 - 150
N-MeFOSAA	80.0	78.1	97.6	50 - 150
N-MeFOSE	800	715	89.3	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	142	126	88.6	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	77.2	70.1	90.9	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	76.4	75.5	98.8	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	76.8	82.9	108	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	80.0	84.0	105	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	75.2	69.8	92.8	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	160	119	74.2	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	160	19.8	12.4 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	160	206	129	50 - 150
Perfluorobutanesulfonic acid (PFBS)	70.8	72.1	102	50 - 150
Perfluorodecanoic acid (PFDA)	80.0	76.4	95.5	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	77.6	54.1	69.7	50 - 150
Perfluorododecanoic acid (PFDoA)	80.0	73.2	91.6	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Water		
Batch:	BK31244	Laboratory ID:	BK31244-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.08 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #		QC LIMITS REC.
11CL-PF3OUdS	30.2	27.0	89.3		50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	61.4	67.3	110		50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	60.0	58.9	98.2		50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	60.8	65.5	108		50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	320	255	79.7		50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	320	289	90.4		50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	64.0	54.1	84.5		50 - 150
9CL-PF3ONS	29.9	33.7	113		50 - 150
ADONA	30.2	29.7	98.4		50 - 150
HFPO-DA (Gen-X)	32.0	30.1	94.0		50 - 150
N-EtFOSA	16.0	16.8	105		50 - 150
N-EtFOSAA	16.0	17.5	110		50 - 150
N-EtFOSE	160	141	88.3		50 - 150
N-MeFOSA	16.0	12.9	80.6		50 - 150
N-MeFOSAA	16.0	16.1	101		50 - 150
N-MeFOSE	160	163	102		50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	28.5	23.9	84.1		50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	15.4	16.5	107		50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	15.3	15.0	98.2		50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	15.4	18.7	122		50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	16.0	17.9	112		50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	15.0	14.0	92.9		50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	32.0	20.8	64.9		50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	32.0	5.34	16.7	*	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	32.0	35.7	112		50 - 150
Perfluorobutanesulfonic acid (PFBS)	14.2	14.4	102		50 - 150
Perfluorodecanoic acid (PFDA)	16.0	14.4	90.1		50 - 150
Perfluorododecanesulfonic acid (PFDoS)	15.5	11.9	76.7		50 - 150
Perfluorododecanoic acid (PFDoA)	16.0	14.2	88.9		50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK31249	Laboratory ID:	BK31249-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	7.49	8.30	111	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.2	16.5	109	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.9	15.3	103	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.0	16.6	110	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	79.2	98.6	124	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	79.2	87.3	110	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	9.97	63.0	50 - 150
9CL-PF3ONS	7.41	9.49	128	50 - 150
ADONA	7.49	10.5	141	50 - 150
HFPO-DA (Gen-X)	7.92	8.59	108	50 - 150
N-EtFOSA	3.96	3.60	90.9	50 - 150
N-EtFOSAA	3.96	4.01	101	50 - 150
N-EtFOSE	39.6	38.1	96.3	50 - 150
N-MeFOSA	3.96	3.88	97.9	50 - 150
N-MeFOSAA	3.96	4.24	107	50 - 150
N-MeFOSE	39.6	44.0	111	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.05	7.30	104	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	3.82	3.69	96.5	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.78	4.34	115	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	3.80	4.61	121	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	3.96	4.21	106	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	3.72	3.52	94.7	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	7.92	6.96	87.9	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	7.92	2.39	30.2 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	7.92	15.1	190 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	3.50	3.66	104	50 - 150
Perfluorodecanoic acid (PFDA)	3.96	3.87	97.8	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.84	2.98	77.6	50 - 150
Perfluorododecanoic acid (PFDoA)	3.96	4.10	104	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK31249	Laboratory ID:	BK31249-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	1.49	1.14	76.9	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.02	3.42	113	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.95	2.88	97.8	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	2.99	3.29	110	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	15.7	11.6	73.6	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	15.7	12.6	79.9	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	3.14	2.24	71.2	50 - 150
9CL-PF3ONS	1.47	1.21	82.4	50 - 150
ADONA	1.49	1.39	93.3	50 - 150
HFPO-DA (Gen-X)	1.57	1.35	85.9	50 - 150
N-EtFOSA	0.786	0.446	56.7	50 - 150
N-EtFOSAA	0.786	0.670	85.3	50 - 150
N-EtFOSE	7.86	7.16	91.1	50 - 150
N-MeFOSA	0.786	0.751	95.6	50 - 150
N-MeFOSAA	0.786	ND	*	50 - 150
N-MeFOSE	7.86	8.16	104	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.40	1.33	95.1	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	0.758	0.642	84.7	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.750	0.730	97.2	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	0.754	0.907	120	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	0.786	0.841	107	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	0.739	0.698	94.4	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.57	1.16	73.8	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	1.57	0.794	50.5	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	1.57	1.65	105	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.695	0.733	105	50 - 150
Perfluorodecanoic acid (PFDA)	0.786	0.620	78.9	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.762	0.691	90.7	50 - 150
Perfluorododecanoic acid (PFDoA)	0.786	0.874	111	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Matrix:	Soil		
Batch:	BK31249	Laboratory ID:	BK31249-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.09 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	0.786	0.503	64.0	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	0.719	0.700	97.4	50 - 150
Perfluorohexanoic acid (PFHxA)	0.786	0.722	91.9	50 - 150
Perfluoro-n-butanoic acid (PFBA)	3.14	2.80	89.1	50 - 150
Perfluorononanoic acid (PFNA)	0.786	0.824	105	50 - 150
Perfluorooctanesulfonic acid (PFOS)	0.731	0.701	95.9	50 - 150
Perfluorooctanoic acid (PFOA)	0.786	0.706	89.8	50 - 150
Perfluoropentanoic acid (PFPeA)	1.57	1.33	84.4	50 - 150
Perfluorotetradecanoic acid (PFTA)	0.786	0.732	93.2	50 - 150
Perfluorotridecanoic acid (PFTrDA)	0.786	1.22	155 *	50 - 150
Perfluoroundecanoic acid (PFUnA)	0.786	0.770	98.0	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Calibration: SJ30009
Instrument: LCQQQ
Calibration Date: 10/02/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
11CL-PF3OUdS	0.7105157	5.72859	9.081596	1.12874		0.9999776	0.995	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.1767107	39.01332	8.281806	1.276528		0.9900164	0.995	*
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.8242061	35.589	5.82754	0.3595247		0.993617	0.995	*
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.9425926	37.0172	7.170204	1.058431		0.9893765	0.995	*
3-Perfluoroheptyl propanoic acid (FHpPA)	0.1232525	18.86516	7.922573	1.290296		0.9997601	0.995	
3-Perfluoropentyl propanoic acid (FPePA)	0.1140748	23.52091	6.666288	0.6714893		0.9999763	0.995	
3-Perfluoropropyl propanoic acid (FPrPA)	1.634509E-02	18.00515	4.160234	1.484028		0.9999391	0.995	
9CL-PF3ONS	0.9740683	8.298783	8.14971	1.314775		0.9997536	0.995	
ADONA	0.4656269	3.342766	6.734537	0.7768405		0.9999391	0.995	
d3-N-MeFOSAA	1.894852	5.832011	8.533981	1.308346			20	
d5-N-EtFOSAA	1.482855	8.987748	8.785462	1.260937			20	
d7-N-MeFOSE	0.1096943	9.538321	9.668704	0.7211339			20	
d9-N-EtFOSE	5.742301E-02	7.356046	9.96349	0.5804035			20	
d-N-EtFOSA	0.1903151	10.33302	10.01312	0.575893			20	
d-N-MeFOSA	0.2894869	9.022579	9.706333	0.7114855			20	
HFPO-DA (Gen-X)	2.388122E-02	6.411962	6.156967	0.3209652		0.9996481	0.995	
M2-4:2 FTS	6.326992	31.98058	5.828181	0.3384551			20	*
M2-6:2 FTS	4.309265	36.08813	7.170869	1.065069			20	*
M2-8:2 FTS	6.068952	33.54427	8.28256	1.286257			20	*
M2PFTeDA	1.156149	7.866873	10.01288	0.5529907			20	
M3HFPO-DA	0.2387003	12.51329	6.155542	0.3513022			20	
M3PFBS	5.185494	6.486697	5.154708	0.9019837			20	
M3PFHxS	2.736241	5.94879	6.69831	0.8015715			20	
M4PFHpA	0.2080857	7.159001	6.612394	0.6834055			20	
M5PFHxA	1.507927	3.404123	5.896742	0.3016276			20	
M6PFDA	1.287883	10.7937	8.325208	1.310789			20	
M7PFUdA	2.052925	15.49362	8.807389	1.274563			20	
M9PFNA	0.2662851	5.998683	7.796514	1.281032			20	
N-EtFOSA	1.327838	11.78257	10.02456	0.583553		0.9987898	0.995	
N-EtFOSAA	0.9484482	3.422898	8.795117	1.254374		0.9998723	0.995	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32403.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1906	Injection Date:	11/20/23
Lab Sample ID:	S3K1906-CCV4	Injection Time:	05:59

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.5	0.7105157	0.8223536		22.1	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.9	0.1767107	0.2256706		13.9	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.78	0.8242061	0.9876032		4.2	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.5	0.9425926	1.188808		10.6	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	64.1	0.1232525	0.1267692		2.3	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	63.0	0.1140748	0.1139017		0.6	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	14.9	1.634509E-02	0.0180358		19.2	30	
9CL-PF3ONS	A	9.35	13.0	0.9740683	1.193445		39.3	30	*
ADONA	A	9.45	11.9	0.4656269	0.5640276		26.1	30	
HFPO-DA (Gen-X)	A	10.0	11.3	2.388122E-02	2.509806E-02		12.9	30	
N-EtFOSA	A	2.50	2.38	1.327838	1.173759		-4.8	30	
N-EtFOSAA	A	2.50	2.57	0.9484482	0.9414994		2.6	30	
N-EtFOSE	A	25.0	23.9	2.103058	2.056374		-4.5	30	
N-MeFOSA	A	2.50	2.27	0.9774397	0.925135		-9.2	30	
N-MeFOSAA	A	2.50	2.85	0.8340644	0.9126055		13.9	30	
N-MeFOSE	A	25.0	22.9	1.016894	0.9965437		-8.6	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.47	1.083962	2.372056		113	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.21	0.8640874	0.7472238		-8.3	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.36	2.706255	2.631102		-0.9	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.82	2.040776	2.135843		17.5	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.90	1.543242	1.729624		15.9	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.36	1.56851	1.462645		0.5	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.25	1.750606E-02	3.578899E-02		85.1	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32403.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1906	Injection Date:	11/20/23
Lab Sample ID:	S3K1906-CCV4	Injection Time:	05:59

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.7	0.2760092	0.6512629		134	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	11.0	0.436862	0.9831314		121	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.19	0.9969591	0.9835308		-1.3	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.30	1.019014	0.9997439		-8.0	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.14	0.5852952	0.5209897		-11.6	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.78	0.8320389	0.8906817		11.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	1.90	4.129863	3.317696		-24.0	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.31	1.223553	1.120432		1.3	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.34	1.086996	1.04172		-6.4	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	10.1	0.8644747	0.8793007		0.6	30
Perfluorononanoic acid (PFNA)	A	2.50	2.54	3.375915	3.386388		1.6	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.31	2.158758	2.010823		-0.4	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.67	1.023846	1.048945		6.6	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.94	1.028127	1.019118		-1.3	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.63	1.00277	1.015076		5.1	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.58	1.122388	1.150844		3.1	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.75	0.8100826	0.8803204		10.1	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32408.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1906	Injection Date:	11/20/23
Lab Sample ID:	S3K1906-CCV5	Injection Time:	07:20

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	10.7	0.7105157	0.7617518		13.2	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.7	0.1767107	0.2215735		11.6	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.68	0.8242061	0.9783318		3.2	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.7	0.9425926	1.211454		12.8	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	63.8	0.1232525	0.1262004		1.9	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	63.5	0.1140748	0.114813		1.4	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	13.4	1.634509E-02	1.625417E-02		7.5	30	
9CL-PF3ONS	A	9.35	12.1	0.9740683	1.107864		29.4	30	
ADONA	A	9.45	11.3	0.4656269	0.5328742		19.2	30	
HFPO-DA (Gen-X)	A	10.0	11.9	2.388122E-02	2.647823E-02		19.1	30	
N-EtFOSA	A	2.50	2.14	1.327838	1.056263		-14.3	30	
N-EtFOSAA	A	2.50	2.65	0.9484482	0.970647		5.8	30	
N-EtFOSE	A	25.0	22.9	2.103058	1.976832		-8.2	30	
N-MeFOSA	A	2.50	2.23	0.9774397	0.9094209		-10.8	30	
N-MeFOSAA	A	2.50	2.79	0.8340644	0.8942138		11.6	30	
N-MeFOSE	A	25.0	23.2	1.016894	1.013313		-7.0	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.72	1.083962	2.432157		118	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.64	0.8640874	0.8931216		9.6	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.85	2.706255	3.175941		19.7	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.09	2.040776	2.337968		28.6	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.84	1.543242	1.694638		13.6	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.34	1.56851	1.448207		-0.5	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.91	1.750606E-02	3.448929E-02		78.2	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32408.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K1906	Injection Date:	11/20/23
Lab Sample ID:	S3K1906-CCV5	Injection Time:	07:20

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.8	0.2760092	0.6566393		136	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.8	0.436862	0.9637586		116	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.22	0.9969591	0.9967089		-0.01	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.36	1.019014	1.026466		-5.5	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.70	0.5852952	0.6562062		11.4	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.56	0.8320389	0.8207938		2.4	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.04	4.129863	3.56263		-18.4	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.36	1.223553	1.142488		3.3	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.32	1.086996	1.032535		-7.2	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.93	0.8644747	0.8673812		-0.7	30
Perfluorononanoic acid (PFNA)	A	2.50	2.25	3.375915	2.999255		-10.1	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.63	2.158758	2.29236		13.5	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.83	1.023846	1.114424		13.3	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.84	1.028127	0.9991427		-3.2	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.69	1.00277	1.037999		7.4	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.76	1.122388	1.232854		10.5	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.78	0.8100826	0.8891821		11.2	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32435.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2163	Injection Date:	11/21/23
Lab Sample ID:	S3K2163-CCV1	Injection Time:	10:31

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.2	0.7105157	0.798364		18.6	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.5	0.1767107	0.2362835		19.8	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.86	0.8242061	0.9957574		5.2	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.6	0.9425926	1.196727		11.4	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	58.2	0.1232525	0.1153421		-7.0	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	66.1	0.1140748	0.1195098		5.6	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	14.8	1.634509E-02	1.797754E-02		18.8	30	
9CL-PF3ONS	A	9.35	12.8	0.9740683	1.168862		36.4	30	*
ADONA	A	9.45	11.9	0.4656269	0.563144		25.9	30	
HFPO-DA (Gen-X)	A	10.0	11.9	2.388122E-02	2.634899E-02		18.5	30	
N-EtFOSA	A	2.50	2.18	1.327838	1.074397		-12.8	30	
N-EtFOSAA	A	2.50	2.45	0.9484482	0.8972756		-2.2	30	
N-EtFOSE	A	25.0	21.3	2.103058	1.831951		-14.9	30	
N-MeFOSA	A	2.50	2.30	0.9774397	0.9371733		-8.0	30	
N-MeFOSAA	A	2.50	2.86	0.8340644	0.9148547		14.2	30	
N-MeFOSE	A	25.0	23.7	1.016894	1.03498		-5.0	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.39	1.083962	2.351052		111	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.47	0.8640874	0.8355022		2.5	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.51	2.706255	2.796646		5.4	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.96	2.040776	2.242354		23.4	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.44	1.543242	1.456209		-2.4	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.39	1.56851	1.483401		1.9	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.02	1.750606E-02	3.110839E-02		60.3	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32435.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2163	Injection Date:	11/21/23
Lab Sample ID:	S3K2163-CCV1	Injection Time:	10:31

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.2	0.2760092	0.6242296		125	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.5	0.436862	0.9382609		110	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.31	0.9969591	1.038554		4.2	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.55	1.019014	1.108528		2.1	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.28	0.5852952	0.5553813		-5.7	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.57	0.8320389	0.8232752		2.7	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.20	4.129863	3.84949		-11.9	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.33	1.223553	1.130243		2.2	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.33	1.086996	1.036238		-6.9	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.95	0.8644747	0.8693923		-0.5	30
Perfluorononanoic acid (PFNA)	A	2.50	2.47	3.375915	3.292767		-1.3	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.53	2.158758	2.203024		9.1	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.51	1.023846	0.9875157		0.4	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.87	1.028127	1.005961		-2.6	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.50	1.00277	0.9655484		-0.05	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.59	1.122388	1.154328		3.4	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.79	0.8100826	0.8907022		11.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32449.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2163	Injection Date:	11/21/23
Lab Sample ID:	S3K2163-CCV2	Injection Time:	14:16

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	9.50	0.7105157	0.6761952		0.5	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.0	0.1767107	0.2271795		14.7	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.78	0.8242061	0.9882198		4.3	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.7	0.9425926	1.209668		12.7	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	61.8	0.1232525	0.1222651		-1.3	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	65.2	0.1140748	0.1179175		4.2	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	13.8	1.634509E-02	1.665908E-02		10.1	30	
9CL-PF3ONS	A	9.35	11.6	0.9740683	1.060019		23.8	30	
ADONA	A	9.45	10.8	0.4656269	0.5110382		14.3	30	
HFPO-DA (Gen-X)	A	10.0	11.7	2.388122E-02	2.610026E-02		17.4	30	
N-EtFOSA	A	2.50	2.38	1.327838	1.175822		-4.6	30	
N-EtFOSAA	A	2.50	2.64	0.9484482	0.9691082		5.6	30	
N-EtFOSE	A	25.0	22.9	2.103058	1.970035		-8.5	30	
N-MeFOSA	A	2.50	2.78	0.9774397	1.131262		11.1	30	
N-MeFOSAA	A	2.50	2.64	0.8340644	0.846014		5.6	30	
N-MeFOSE	A	25.0	23.4	1.016894	1.01945		-6.5	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	9.40	1.083962	2.354523		111	30	*
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.40	0.8640874	0.8114729		-0.4	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.48	2.706255	2.77032		4.4	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.58	2.040776	1.954104		7.5	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.35	1.543242	1.4051		-5.9	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.50	1.56851	1.547677		6.3	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	8.53	1.750606E-02	3.306522E-02		70.7	30	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32449.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2163	Injection Date:	11/21/23
Lab Sample ID:	S3K2163-CCV2	Injection Time:	14:16

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	11.3	0.2760092	0.6291436		126	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.8	0.436862	0.9621851		116	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.30	0.9969591	1.032983		3.6	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.43	1.019014	1.057514		-2.6	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.10	0.5852952	0.5123419		-13.1	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.60	0.8320389	0.8332759		4.0	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.16	4.129863	3.779442		-13.5	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.43	1.223553	1.177943		6.5	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.29	1.086996	1.019929		-8.3	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	10.1	0.8644747	0.880123		0.7	30
Perfluorononanoic acid (PFNA)	A	2.50	2.41	3.375915	3.216902		-3.5	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.46	2.158758	2.13709		5.8	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.83	1.023846	1.112949		13.1	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.85	1.028127	1.002146		-2.9	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.52	1.00277	0.9743078		0.9	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.84	1.122388	1.265405		13.4	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.61	0.8100826	0.8342982		4.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SECOND COLUMN PESTICIDES ANALYSIS DATA SHEET

23SP7 (0-2.5ft)

Laboratory: York Analytical Laboratories, Inc. - St
SDG: 23K0753
Client: Touchstone Environmental Geology, F
Project: 220293 100 East 149th Street Bronx, N
Matrix: Soil
Laboratory ID: 23K0753-01
File ID: P600426376.D
Sampled: 11/09/23 12:40
Prepared: 11/16/23 08:29
Analyzed: 11/17/23 17:54
Solids: 88.78
Preparation: EPA 3550C
Initial/Final: 30.1 g / 10 mL
Batch: BK31064
Sequence: S3K1747
Calibration: SJ30007
Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	COL 1 (ug/kg dry)	COL 2 (ug/kg dry)	% Diff	Q
72-54-8	4,4'-DDD	5	1.85	1.85		U
72-55-9	4,4'-DDE	5	1.85	1.85		U
50-29-3	4,4'-DDT	5	1.88	2.72	36.52	D
309-00-2	Aldrin	5	1.85	1.85		U
319-84-6	alpha-BHC	5	1.85	1.85		U
5103-71-9	alpha-Chlordane	5	1.85	1.85		U
319-85-7	beta-BHC	5	1.85	1.85		U
57-74-9	Chlordane, total	5	37.0	37.0		U
319-86-8	delta-BHC	5	1.85	1.85		U
60-57-1	Dieldrin	5	1.85	1.85		U
959-98-8	Endosulfan I	5	1.85	1.85		U
33213-65-9	Endosulfan II	5	1.85	1.85		U
1031-07-8	Endosulfan sulfate	5	1.85	1.85		U
72-20-8	Endrin	5	1.85	1.85		U
7421-93-4	Endrin aldehyde	5	1.85	1.85		U
53494-70-5	Endrin ketone	5	1.85	1.85		U
58-89-9	gamma-BHC (Lindane)	5	1.85	1.85		U
5566-34-7	gamma-Chlordane	5	1.85	1.85		U
76-44-8	Heptachlor	5	1.85	1.85		U
1024-57-3	Heptachlor epoxide	5	1.85	1.85		U
72-43-5	Methoxychlor	5	9.26	9.26		U
8001-35-2	Toxaphene	5	93.7	93.7		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	74.8	44.2	59.1	30 - 150	
Tetrachloro-m-xylene	74.8	52.0	69.4	30 - 150	

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0753
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 East 149th Street Bronx, NY
Instrument ID:	GCECD6	Calibration:	SJ30007
Lab File ID:	P600426384.D	Calibration Date:	10/04/23 16:56
Sequence:	S3K1747	Injection Date:	11/17/23
Lab Sample ID:	S3K1747-CCV5	Injection Time:	20:59

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
4,4'-DDD	A	50.0	62.1	1.744157E+07	2.2098E+07		24.3	20 *
4,4'-DDD [2C]	A	50.0	73.7	2500934	3670000		47.4	20 *
4,4'-DDE	A	50.0	51.5	2.322672E+07	2.4592E+07		3.0	20
4,4'-DDE [2C]	A	50.0	59.3	3283579	4208000		18.6	20
4,4'-DDT	A	50.0	48.8	1.423015E+07	1.3694E+07		-2.4	20
4,4'-DDT [2C]	A	50.0	46.1	2439039	2224000		-7.8	20
Aldrin	A	50.0	53.3	2.60465E+07	2.8468E+07		6.7	20
Aldrin [2C]	A	50.0	52.3	4456627	5106000		4.6	20
alpha-BHC	A	50.0	54.6	3.024826E+07	3.3826E+07		9.2	20
alpha-BHC [2C]	A	50.0	58.3	4260112	5700000		16.6	20
alpha-Chlordane	A	50.0	50.5	2.418964E+07	2.4896E+07		1.0	20
alpha-Chlordane [2C]	A	50.0	53.8	4283886	4812000		7.6	20
beta-BHC	A	50.0	51.5	1.209378E+07	1.1436E+07		3.0	20
beta-BHC [2C]	A	50.0	57.6	2269652	2376000		15.3	20
delta-BHC	A	50.0	47.4	2.825173E+07	2.4658E+07		-5.3	20
delta-BHC [2C]	A	50.0	54.2	3897208	4162000		8.5	20
Dieldrin	A	50.0	52.3	2.541466E+07	2.668E+07		4.7	20
Dieldrin [2C]	A	50.0	53.2	3999687	4524000		6.4	20
Endosulfan I	A	50.0	52.0	2.327455E+07	2.4242E+07		3.9	20
Endosulfan I [2C]	A	50.0	54.6	3646380	4160000		9.2	20
Endosulfan II	A	50.0	51.1	2.129145E+07	2.132E+07		2.2	20
Endosulfan II [2C]	A	50.0	53.9	3606896	3868000		7.9	20
Endosulfan sulfate	A	50.0	52.3	1.95921E+07	1.9302E+07		4.7	20
Endosulfan sulfate [2C]	A	50.0	54.1	3238114	3314000		8.2	20
Endrin	A	50.0	55.1	2.078568E+07	2.257E+07		10.1	20
Endrin [2C]	A	50.0	56.6	3265026	3766000		13.2	20
Endrin aldehyde	A	50.0	48.3	1.694743E+07	1.4574E+07		-3.4	20
Endrin aldehyde [2C]	A	50.0	51.5	2981885	2736000		3.0	20
Endrin ketone	A	50.0	56.0	2.120192E+07	2.2792E+07		12.0	20

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Matrix: Soil
Batch: BK30825
Laboratory ID: BK30825-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.		QC LIMITS REC.
Aluminum	9490	8200	86.4		45.4 - 128.6
Antimony	248	43.1	17.4		3 - 103.2
Arsenic	163	128	78.3		68.7 - 100.6
Barium	319	284	89.0		82.5 - 115.7
Beryllium	119	93.6	78.6		77.7 - 109.2
Cadmium	130	105	80.9		75.2 - 106.2
Calcium	5000	4520	90.3		80.6 - 114.4
Chromium	153	133	86.7		77.8 - 111.8
Cobalt	153	136	88.7		79.1 - 109.8
Copper	245	236	96.3		80.4 - 111
Iron	7540	7250	96.2		69.8 - 144.6
Lead	220	191	87.0		80 - 113.6
Magnesium	1980	2000	101		85.9 - 129.3
Manganese	431	378	87.6		79.6 - 114.2
Nickel	175	154	88.3		76.6 - 108.6
Potassium	1570	1590	101		80.9 - 131.2
Selenium	156	145	93.2		80.8 - 118.6
Silver	82.9	66.4	80.1		76.7 - 114.7
Sodium	453	975	215	*	72.2 - 119.7
Thallium	99.4	77.6	78.0		75.8 - 110.7
Vanadium	170	144	84.8		75.3 - 114.1
Zinc	201	331	165	*	79.6 - 115.92

* Values outside of QC limits

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0753

Client: Touchstone Environmental Geology, PC

Instrument ID: AvioICP Project: 220293 100 East 149th Street Bronx, NY

Sequence: S3K2002 Calibration: 11/17/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BK30825-BLK1	Aluminum	1.03	4.17	mg/kg wet		EPA 6010D
	Antimony	0.007	2.08	mg/kg wet		EPA 6010D
	Arsenic	0.268	1.25	mg/kg wet		EPA 6010D
	Barium	0.047	2.08	mg/kg wet		EPA 6010D
	Beryllium	0.028	0.042	mg/kg wet		EPA 6010D
	Cadmium	0.014	0.250	mg/kg wet		EPA 6010D
	Calcium	58.0	4.17	mg/kg wet	*	EPA 6010D
	Chromium	0.053	0.417	mg/kg wet		EPA 6010D
	Cobalt	-0.016	0.333	mg/kg wet		EPA 6010D
	Copper	0.036	1.67	mg/kg wet		EPA 6010D
	Iron	1.82	20.8	mg/kg wet		EPA 6010D
	Lead	0.140	0.417	mg/kg wet		EPA 6010D
	Magnesium	0.334	4.17	mg/kg wet		EPA 6010D
	Manganese	0.036	0.417	mg/kg wet		EPA 6010D
	Nickel	0.252	0.830	mg/kg wet		EPA 6010D
	Potassium	-2.82	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.452	2.08	mg/kg wet		EPA 6010D
	Silver	0.217	0.420	mg/kg wet		EPA 6010D
	Sodium	27.3	41.7	mg/kg wet		EPA 6010D
	Thallium	-0.002	2.08	mg/kg wet		EPA 6010D
	Vanadium	0.020	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.088	2.08	mg/kg wet		EPA 6010D
S3K2002-CCB6	Aluminum	0.0006	0.050	ug/mL		EPA 6010D
	Antimony	0.009	0.025	ug/mL		EPA 6010D
	Arsenic	0.005	0.015	ug/mL		EPA 6010D
	Barium	-0.0001	0.025	ug/mL		EPA 6010D
	Beryllium	0.0005	0.0005	ug/mL		EPA 6010D
	Cadmium	0.00003	0.003	ug/mL		EPA 6010D
	Calcium	0.0007	0.050	ug/mL		EPA 6010D
	Chromium	0.0005	0.005	ug/mL		EPA 6010D
	Cobalt	-0.0003	0.004	ug/mL		EPA 6010D
	Copper	0.001	0.020	ug/mL		EPA 6010D
	Iron	0.005	0.250	ug/mL		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Instrument ID: AvioICP
Calibration: 11/17/23
Control Limt: +/- 10.00%
Sequence: S3K2002

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K2002-CCV1	Potassium	5.00	4.91	98.2		ug/mL	EPA 6010D
	Selenium	0.500	0.502	100		ug/mL	EPA 6010D
	Silver	1.25	1.27	102		ug/mL	EPA 6010D
	Sodium	25.0	25.7	103		ug/mL	EPA 6010D
	Thallium	0.500	0.506	101		ug/mL	EPA 6010D
	Vanadium	2.50	2.50	99.8		ug/mL	EPA 6010D
	Zinc	2.50	2.50	100		ug/mL	EPA 6010D
S3K2002-CCV5	Aluminum	10.0	10.1	101		ug/mL	EPA 6010D
	Antimony	0.250	0.222	88.8	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.505	101		ug/mL	EPA 6010D
	Barium	10.0	10.5	105		ug/mL	EPA 6010D
	Beryllium	0.250	0.265	106		ug/mL	EPA 6010D
	Cadmium	0.250	0.256	103		ug/mL	EPA 6010D
	Calcium	25.0	25.7	103		ug/mL	EPA 6010D
	Chromium	1.00	1.03	103		ug/mL	EPA 6010D
	Cobalt	2.50	2.61	104		ug/mL	EPA 6010D
	Copper	1.25	1.32	106		ug/mL	EPA 6010D
	Iron	5.00	5.15	103		ug/mL	EPA 6010D
	Lead	0.500	0.516	103		ug/mL	EPA 6010D
	Magnesium	25.0	25.7	103		ug/mL	EPA 6010D
	Manganese	2.50	2.62	105		ug/mL	EPA 6010D
	Nickel	2.50	2.63	105		ug/mL	EPA 6010D
	Potassium	5.00	5.20	104		ug/mL	EPA 6010D
	Selenium	0.500	0.517	103		ug/mL	EPA 6010D
	Silver	1.25	1.31	104		ug/mL	EPA 6010D
	Sodium	25.0	26.0	104		ug/mL	EPA 6010D
	Thallium	0.500	0.524	105		ug/mL	EPA 6010D
	Vanadium	2.50	2.57	103		ug/mL	EPA 6010D
	Zinc	2.50	2.56	102		ug/mL	EPA 6010D
S3K2002-CCV6	Aluminum	10.0	10.9	109		ug/mL	EPA 6010D
	Antimony	0.250	0.214	85.7	*	ug/mL	EPA 6010D
	Arsenic	0.500	0.491	98.2		ug/mL	EPA 6010D
	Barium	10.0	10.1	101		ug/mL	EPA 6010D
	Beryllium	0.250	0.254	102		ug/mL	EPA 6010D
	Cadmium	0.250	0.249	99.5		ug/mL	EPA 6010D
	Calcium	25.0	27.3	109		ug/mL	EPA 6010D
	Chromium	1.00	0.995	99.5		ug/mL	EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0753
Client: Touchstone Environmental Geology, PC
Project: 220293 100 East 149th Street Bronx, NY
Instrument ID: AvioICP
Calibration: 11/17/23
Control Limt: +/- 10.00%
Sequence: S3K2002

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K2002-CCV6	Cobalt	2.50	2.53	101	ug/mL	EPA 6010D
	Copper	1.25	1.26	101	ug/mL	EPA 6010D
	Iron	5.00	5.51	110	ug/mL	EPA 6010D
	Lead	0.500	0.501	100	ug/mL	EPA 6010D
	Magnesium	25.0	27.3	109	ug/mL	EPA 6010D
	Manganese	2.50	2.52	101	ug/mL	EPA 6010D
	Nickel	2.50	2.56	102	ug/mL	EPA 6010D
	Potassium	5.00	5.49	110	ug/mL	EPA 6010D
	Selenium	0.500	0.500	100	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Sodium	25.0	28.3	113 *	ug/mL	EPA 6010D
	Thallium	0.500	0.509	102	ug/mL	EPA 6010D
	Vanadium	2.50	2.47	98.8	ug/mL	EPA 6010D
	Zinc	2.50	2.47	98.9	ug/mL	EPA 6010D
S3K2002-CCV7	Aluminum	10.0	10.3	103	ug/mL	EPA 6010D
	Antimony	0.250	0.223	89.4 *	ug/mL	EPA 6010D
	Arsenic	0.500	0.510	102	ug/mL	EPA 6010D
	Barium	10.0	10.6	106	ug/mL	EPA 6010D
	Beryllium	0.250	0.268	107	ug/mL	EPA 6010D
	Cadmium	0.250	0.260	104	ug/mL	EPA 6010D
	Calcium	25.0	25.9	104	ug/mL	EPA 6010D
	Chromium	1.00	1.04	104	ug/mL	EPA 6010D
	Cobalt	2.50	2.65	106	ug/mL	EPA 6010D
	Copper	1.25	1.34	107	ug/mL	EPA 6010D
	Iron	5.00	5.25	105	ug/mL	EPA 6010D
	Lead	0.500	0.526	105	ug/mL	EPA 6010D
	Magnesium	25.0	26.1	104	ug/mL	EPA 6010D
	Manganese	2.50	2.65	106	ug/mL	EPA 6010D
	Nickel	2.50	2.68	107	ug/mL	EPA 6010D
	Potassium	5.00	5.34	107	ug/mL	EPA 6010D
	Selenium	0.500	0.523	105	ug/mL	EPA 6010D
	Silver	1.25	1.32	105	ug/mL	EPA 6010D
	Sodium	25.0	26.2	105	ug/mL	EPA 6010D
	Thallium	0.500	0.529	106	ug/mL	EPA 6010D
	Vanadium	2.50	2.60	104	ug/mL	EPA 6010D
	Zinc	2.50	2.59	103	ug/mL	EPA 6010D
S3K2002-CCV8	Aluminum	10.0	10.4	104	ug/mL	EPA 6010D

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: 23K0980
8 Soil Samples, 1 Trip Blank, and 1 Field Blank

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K0980 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K0980, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/6/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 13, 2023
SAMPLE TYPE:	8 soil samples, 1 trip blank and 1 field blank
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K0980

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 8 soil samples, 1 trip blank, and 1 field blank collected on November 13, 2023. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), 1,4-Dioxane, PFASs, Pesticides, PCBs, Metals, Hexavalnet Chromium (Cr+6), Total Cyanide (TCN), TCLP Metals, and pH.

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K0980. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Tables 6-1 through 6-9. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K0980, ten samples were analyzed and results were reported for 2120 analytes. Thirty results were rejected. Even though some results were flagged with a "J" as estimated, all other results (98.6 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	1,4-Dioxane	J detects R non-detects	ICAL RF < 0.005	Since all results are non-detect, the results are rejected
23SP5 (12.5-15ft) 23SP5 (15-17.5ft)	All analytes	J detects UJ non-detects	Surr rec for 1,2-DCEd4 < QC limits Int Std area for FB > QC limits	Data are estimated
23SP6 (15-17.5ft)	All detected analytes	J detects	Surr rec for 1,2-DCEd4 > QC limits	Data are estimated
Trip Blank Field Blank	2-Butanone 2-Hexanone	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated
Trip Blank Field Blank	Acetone Acrolein Bromomethane Chloromethane Tetrachloroethene Trichlorofluoromethane	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated
All soils	4-Methyl-2-pentanone Acetone Dichlorodifluoromethane Tetrachloroethene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated
23SP5 (12.5-15ft) 23SP (15-17.5ft) 23SP5 (25-27.5ft) 23SP6 (12.5-15ft) 23SP6 (22.5-25ft)	DBCP 2-Hexanone	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

23SP5 (0-2.5ft) 23SP6 (0-2.5ft) 23SP6 (15-17.5ft)	Bromomethane Chloroethane	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-2 SVOCs - Scan

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP6 (0-2.5ft) 23SP6 (12.5-15ft) 23SP6 (15-17.5ft) 23SP6 (22.5-25ft)	Hexachlorocyclopentadiene	J detects R non-detects	LCS re < 0 %	Since all results are non-detect, the results are rejected
23SP5 (0-2.5ft) 23SP5 (12.5-15ft) 23SP (15-17.5ft) 23SP5 (25-27.5ft)	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	J detects R non-detects	CCV % D > 90 %	Since all results are non-detect, the results are rejected
23SP5 (0-2.5ft) 23SP5 (12.5-15ft) 23SP5 (15-17.5ft) 23SP5 (25-27.5ft)	2,4-Dinitrotoluene 2,6-Dinitrotoluene Benzoic acid Bis(2-chloroisopropyl)ether Di-n-octyl phthalate Hexachlorocyclopentadiene NDMA	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated
23SP6 (0-2.5ft) 23SP6 (12.5-15ft) 23SP6 (15-17.5ft) 23SP6 (22.5-25ft)	2,4-Dinitrophenol 4,6-Dinitro-2-methylphenol	J detects R non-detects	CCV % D > 90 %	Since all results are non-detect, the results are rejected

23SP6 (0-2.5ft) 23SP6 (12.5-15ft) 23SP6 (15-17.5ft) 23SP6 (22.5-25ft)	2,3,4,6-Tetrachlorophenol 2,4,5-Trichlorophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Nitrophenol 3,3'-Dichlorobenzidine 4-Nitrophenol Benzidine Benzo(a)pyrene Benzoic acid Benzyl butyl phthalate Dibenzo(a,h)anthracene Di-n-octyl phthalate Indeneo(1,2,3-cd)pyrene Pentachlorophenol	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-3 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-4 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
PFAS Field Blank	PFBS PFPeA N-EtFOSE	J detects UJ non-detects	Sur rec < QC limits	Data are estimated

23SP6 (22.5-25ft) 23SP6 (0-2.5ft) 23SP6 (12.5-15ft) 23SP6 (15-17.5ft) 23SP6 (22.5-25ft)	PFBS PFPeA	J detects UJ non-detects	Sur rec < QC limits	Data are estimated
All samples	8:2 FTS 4:2 FTS 6:2 FTS	J detects UJ non-detects	ICAL Qual Cod < 0.995	Data are estimated
All soil samples	11CL-PF3OUdS FPrPA 9CL-PF3ONS PFEESA PFNS NFDHA PFMPA PFMBA	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated
23SP5 (0-2.5ft) 23SP5 (12.5-15ft)	N-EtFOSA	J detects UJ non-detects	CCV % D > QC limit	Data are estimated
PFAS Field Blank	11CL-PF3OUdS 9CL-PF3ONS N-EtFOSAA N-MeFOSAA PFEESA NFDHA PFMPA PFMBA PFDS PFDoS PFHxS PFOS	J detects UJ non-detects	CCV % D > QC limit and/or LCS rec < QC limits	Data are estimated

23SP5 (25-27.5ft) 23SP6 (12.5-15ft) 23SP^ (22.5-25ft)	PFBA	CRQL-U	Analyte detected in field blank	Data changed to non-detect

Table 6-5 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All soil samples	Endrin ketone	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-6 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 ICP Metals/TCLP Metals

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All soil samples	Zn	J+ detects	SRM rec > QC limit	Data are biased high

Table 6-8 Mercury/TCLP Mercury

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-9 Cr+6, TCN, and pH

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SP5 (15-17.5ft)	PH (corrosivity)	J	Extracted outside holding time	Data are estimated

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 01/02/2024
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K0980

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Work Order Narrative

York Analytical Work Order No.: 23K0980

Client : Touchstone Environmental Geology, PC

Client Project ID : 220293 100 E. 149th St. Bronx, NY

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/14/2023 5:00 PM

11 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{1.4}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23SP5 (0-2.5 ft)	23K0980-01	Soil	11/13/2023 9:15 AM	11/14/2023 5:00 PM
23SP5 (12.5-15 ft)	23K0980-02	Soil	11/13/2023 9:30 AM	11/14/2023 5:00 PM
23SP5 (15-17.5 ft)	23K0980-03	Soil	11/13/2023 9:50 AM	11/14/2023 5:00 PM
23SP5 (25-27.5 ft)	23K0980-04	Soil	11/13/2023 10:00 AM	11/14/2023 5:00 PM
23SP6 (0-2.5 ft)	23K0980-05	Soil	11/13/2023 11:20 AM	11/14/2023 5:00 PM
23SP6 (12.5-15 ft)	23K0980-06	Soil	11/13/2023 11:45 AM	11/14/2023 5:00 PM
23SP6 (15-17.5 ft)	23K0980-07	Soil	11/13/2023 11:50 AM	11/14/2023 5:00 PM
23SP6 (22.5-25 ft)	23K0980-08	Soil	11/13/2023 12:00 PM	11/14/2023 5:00 PM
Trip Blank	23K0980-09	Water	11/13/2023 3:00 PM	11/14/2023 5:00 PM
Field Blank	23K0980-10	Water	11/13/2023 3:00 PM	11/14/2023 5:00 PM
PFAS Field Blank	23K0980-11	Water	11/13/2023 3:00 PM	11/14/2023 5:00 PM

WorkOrder Comments

2.0 Methodology

Analysis Class	Preparation Method	Analysis Methodology
VOA	EPA 5030B	EPA 8260D
VOA	EPA 5035A	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D
SVOA	EPA 3550C	EPA 8270D SIM
PFAS	EPA 1633 Prep	EPA 1633 Draft 3
PEST	EPA 3550C	EPA 8081B
ARO	EPA 3550C	EPA 8082A
METALS	EPA 3050B	EPA 6010D
METALS	EPA 3015A/1311	EPA 6010D/1311
HG	EPA SW846-7470A	EPA 7470/1311
HG	EPA 7473 soil	EPA 7473
WET	Analysis Preparation	Calculation
WET	EPA SW 846-1311 TCLP ext. for	EPA 1311
WET	EPA SW846-3060	EPA 7196A
WET	Analysis Preparation Soil	EPA 9014/9010C
WET	Analysis Preparation	EPA 9045D
WET	% Solids Prep	SM 2540G

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0980

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page _____ of _____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th-st Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** ✓

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

First Ateman

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- ~~NY~~ ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- Other: _____
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP5 (0-2.5 ft.)	S	11/13/23 9:15	TCL +10 VOCs 9 TICs, TCL+20 SVOCs +	(2) 8oz. Jar 4 vials	
23SP5 (12.5-15ft.)		9:30	TICs, Pesticides/PCBs EPA 8081/8082,	1 PFAS plastic	
23SP5 (15-17.5ft.)		9:50	21 PFAS Compounds EPA 1633, 1,4-dioxane		
23SP5 (25-27.5 ft)		10:00	EPA 8270 SIM, TAL Metals + Cyanide		
23SP6 (0-2.5 ft.)		11:20	& Hexavalent Chromium		
23SP6 (12.5-15 ft)		11:45			
23SP6 (15-17.5ft.)		11:50			
23SP6 ~~(25-27.5 ft.)~~ 22.5-25 ft		12:00			
Trip Blan, Field blank			VOCs	2 vials + 3 vials	
PFAS Field Blank			PFAS	1 PFAS Plastic	

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/14/23 PM 12/15	KBarkyork	11/14/23 12/15 PM	KBarkyork	11/14/23 1700
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	**Samples Received in LAB by**	**Date/Time** / **Temperature**
					11/14/23 1700 1.4 Degrees C

Page 271 of 2923

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
CLASS: VOA
METHOD: EPA 8260D

DATA PACKAGE COVER PAGE

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (12.5-15 ft)	23K0980-02RE1
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (15-17.5 ft)	23K0980-03RE1
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08
Trip Blank	23K0980-09
Field Blank	23K0980-10

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: V2625144.D

Sampled: 11/13/23 09:15 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 14:08

Solids: 86.66 Preparation: EPA 5035A Initial/Final: 4.49 g / 5 ml

Batch: BK31257 Sequence: S3K2123 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0064	U	
71-55-6	1,1,1-Trichloroethane	1	0.0064	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0064	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0064	U	
79-00-5	1,1,2-Trichloroethane	1	0.0064	U	
75-34-3	1,1-Dichloroethane	1	0.0064	U	
75-35-4	1,1-Dichloroethylene	1	0.0064	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0064	U	
96-18-4	1,2,3-Trichloropropane	1	0.0064	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0064	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0064	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0064	U	
106-93-4	1,2-Dibromoethane	1	0.0064	U	
95-50-1	1,2-Dichlorobenzene	1	0.0064	U	
107-06-2	1,2-Dichloroethane	1	0.0064	U	
78-87-5	1,2-Dichloropropane	1	0.0064	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0064	U	
541-73-1	1,3-Dichlorobenzene	1	0.0064	U	
106-46-7	1,4-Dichlorobenzene	1	0.0064	U	
123-91-1	1,4-Dioxane	1	~~0.13~~	U	R
78-93-3	2-Butanone	1	0.0064	U	
591-78-6	2-Hexanone	1	0.0064	U	
108-10-1	4-Methyl-2-pentanone	1	0.0064	U	UJ
67-64-1	Acetone	1	0.013	U	UJ
107-02-8	Acrolein	1	0.013	U	
107-13-1	Acrylonitrile	1	0.0064	U	
71-43-2	Benzene	1	0.0064	U	
74-97-5	Bromochloromethane	1	0.0064	U	
75-27-4	Bromodichloromethane	1	0.0064	U	
75-25-2	Bromoform	1	0.0064	U	
74-83-9	Bromomethane	1	0.0064	U	UJ
75-15-0	Carbon disulfide	1	0.0064	U	
56-23-5	Carbon tetrachloride	1	0.0064	U	
108-90-7	Chlorobenzene	1	0.0064	U	
75-00-3	Chloroethane	1	0.0064	U	UJ
67-66-3	Chloroform	1	0.0064	U	
74-87-3	Chloromethane	1	0.0064	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0064	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0064	U	
110-82-7	Cyclohexane	1	0.0037	J	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: V2625144.D

Sampled: 11/13/23 09:15 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 14:08

Solids: 86.66 Preparation: EPA 5035A Initial/Final: 4.49 g / 5 ml

Batch: BK31257 Sequence: S3K2123 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0064	U	
74-95-3	Dibromomethane	1	0.0064	U	
75-71-8	Dichlorodifluoromethane	1	0.0064	U	UJ
100-41-4	Ethyl Benzene	1	0.0064	U	
87-68-3	Hexachlorobutadiene	1	0.0064	U	
98-82-8	Isopropylbenzene	1	0.0064	U	
79-20-9	Methyl acetate	1	0.0064	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0064	U	
108-87-2	Methylcyclohexane	1	0.0064	U	
75-09-2	Methylene chloride	1	0.013	U	
104-51-8	n-Butylbenzene	1	0.0064	U	
103-65-1	n-Propylbenzene	1	0.0064	U	
95-47-6	o-Xylene	1	0.0064	U	
179601-23-1	p- & m- Xylenes	1	0.013	U	
99-87-6	p-Isopropyltoluene	1	0.0064	U	
135-98-8	sec-Butylbenzene	1	0.0064	U	
100-42-5	Styrene	1	0.0064	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0064	U	
98-06-6	tert-Butylbenzene	1	0.0064	U	
127-18-4	Tetrachloroethylene	1	0.0064	U	UJ
108-88-3	Toluene	1	0.0064	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0064	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0064	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0064	U	
79-01-6	Trichloroethylene	1	0.0064	U	
75-69-4	Trichlorofluoromethane	1	0.0064	U	
75-01-4	Vinyl Chloride	1	0.0064	U	
1330-20-7	Xylenes, Total	1	0.019	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.0	95.9	77 - 125	
SURR: Toluene-d8	50.0	48.3	96.7	85 - 120	
SURR: p-Bromofluorobenzene	50.0	56.3	113	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	142769	5.958	214973	5.952	
ISTD: Chlorobenzene-d5	596957	9.012	868617	9.012	
ISTD: 1,2-Dichlorobenzene-d4	238358	12.024	409593	12.024	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID: V2625130.D

Sampled: 11/13/23 09:30 Prepared: 11/19/23 08:00 Analyzed: 11/19/23 21:00

Solids: 84.14 Preparation: EPA 5030B/1311 Initial/Final: 3.63 mL / 5 mL

Batch: BK31242 Sequence: S3K2022 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.82	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.82	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.82	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.82	U	
79-00-5	1,1,2-Trichloroethane	100	0.82	U	
75-34-3	1,1-Dichloroethane	100	0.82	U	
75-35-4	1,1-Dichloroethylene	100	0.82	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.82	U	
96-18-4	1,2,3-Trichloropropane	100	0.82	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.82	U	
95-63-6	1,2,4-Trimethylbenzene	100	1.2	D	J
96-12-8	1,2-Dibromo-3-chloropropane	100	0.82	U	UJ
106-93-4	1,2-Dibromoethane	100	0.82	U	
95-50-1	1,2-Dichlorobenzene	100	0.82	U	
107-06-2	1,2-Dichloroethane	100	0.82	U	
78-87-5	1,2-Dichloropropane	100	0.82	U	
108-67-8	1,3,5-Trimethylbenzene	100	3.9	D	J
541-73-1	1,3-Dichlorobenzene	100	0.82	U	UJ
106-46-7	1,4-Dichlorobenzene	100	0.82	U	UJ
123-91-1	1,4-Dioxane	100	~~16~~	U	R
78-93-3	2-Butanone	100	0.82	U	UJ
591-78-6	2-Hexanone	100	0.82	U	
108-10-1	4-Methyl-2-pentanone	100	0.82	U	
67-64-1	Acetone	100	1.6	U	
107-02-8	Acrolein	100	1.6	U	
107-13-1	Acrylonitrile	100	0.82	U	
71-43-2	Benzene	100	0.82	U	
74-97-5	Bromochloromethane	100	0.82	U	
75-27-4	Bromodichloromethane	100	0.82	U	
75-25-2	Bromoform	100	0.82	U	
74-83-9	Bromomethane	100	0.82	U	
75-15-0	Carbon disulfide	100	0.82	U	
56-23-5	Carbon tetrachloride	100	0.82	U	
108-90-7	Chlorobenzene	100	0.82	U	
75-00-3	Chloroethane	100	0.82	U	
67-66-3	Chloroform	100	0.82	U	
74-87-3	Chloromethane	100	0.82	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.82	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.82	U	
110-82-7	Cyclohexane	100	64	D	J

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID: V2625130.D

Sampled: 11/13/23 09:30 Prepared: 11/19/23 08:00 Analyzed: 11/19/23 21:00

Solids: 84.14 Preparation: EPA 5030B/1311 Initial/Final: 3.63 mL / 5 mL

Batch: BK31242 Sequence: S3K2022 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.82	U	UJ
74-95-3	Dibromomethane	100	0.82	U	UJ
75-71-8	Dichlorodifluoromethane	100	0.82	U	UJ
100-41-4	Ethyl Benzene	100	8.2	D	J
87-68-3	Hexachlorobutadiene	100	0.82	U	UJ
98-82-8	Isopropylbenzene	100	13	D	J
79-20-9	Methyl acetate	100	0.82	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.82	U	UJ
75-09-2	Methylene chloride	100	1.6	U	UJ
104-51-8	n-Butylbenzene	100	22	D	J
103-65-1	n-Propylbenzene	100	43	D	
95-47-6	o-Xylene	100	3.1	D	
179601-23-1	p- & m- Xylenes	100	6.9	D	
99-87-6	p-Isopropyltoluene	100	7.0	D	
135-98-8	sec-Butylbenzene	100	6.8	D	
100-42-5	Styrene	100	0.82	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	0.82	U	UJ
98-06-6	tert-Butylbenzene	100	0.50	JD	J
127-18-4	Tetrachloroethylene	100	0.82	U	UJ
108-88-3	Toluene	100	2.0	D	J
156-60-5	trans-1,2-Dichloroethylene	100	0.82	U	UJ
10061-02-6	trans-1,3-Dichloropropylene	100	0.82	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.82	U	
79-01-6	Trichloroethylene	100	0.82	U	
75-69-4	Trichlorofluoromethane	100	0.82	U	
75-01-4	Vinyl Chloride	100	0.82	U	
1330-20-7	Xylenes, Total	100	10	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	25.6	51.2	77 - 125	D
SURR: Toluene-d8	50.0	48.7	97.3	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	69.2	138	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	710149	5.964	152901	5.958	*
ISTD: Chlorobenzene-d5	959122	9.019	630741	9.019	
ISTD: 1,2-Dichlorobenzene-d4	538711	12.03	302569	12.03	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02RE1	File ID:	V2625148.D
Sampled:	11/13/23 09:30	Prepared:	11/20/23 09:00	Analyzed:	11/20/23 15:58
Solids:	84.14	Preparation:	EPA 5035A	Initial/Final:	3.69 g / 5 ml
Batch:	BK31257	Sequence:	S3K2123	Calibration:	SK30029
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
108-87-2	Methylcyclohexane	2000	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	49.4	98.9	77 - 125	D
SURR: Toluene-d8	50.0	46.7	93.4	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	55.4	111	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	195546	5.958	214973	5.952	
ISTD: Chlorobenzene-d5	806616	9.013	868617	9.012	
ISTD: 1,2-Dichlorobenzene-d4	356797	12.03	409593	12.024	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0980

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0980-03 | File ID: V2625131.D

Sampled: 11/13/23 09:50 | Prepared: 11/19/23 08:00 | Analyzed: 11/19/23 21:27

Solids: 68.87 | Preparation: EPA 5030B/1311 | Initial/Final: 7 mL / 5 mL

Batch: BK31242 | Sequence: S3K2022 | Calibration: SK30029 | Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.52	U	UJ
71-55-6	1,1,1-Trichloroethane	100	0.52	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.52	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.52	U	
79-00-5	1,1,2-Trichloroethane	100	0.52	U	
75-34-3	1,1-Dichloroethane	100	0.52	U	
75-35-4	1,1-Dichloroethylene	100	0.52	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.52	U	
96-18-4	1,2,3-Trichloropropane	100	0.52	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.52	U	
95-63-6	1,2,4-Trimethylbenzene	100	1.5	D	J
96-12-8	1,2-Dibromo-3-chloropropane	100	0.52	U	UJ
106-93-4	1,2-Dibromoethane	100	0.52	U	
95-50-1	1,2-Dichlorobenzene	100	0.52	U	
107-06-2	1,2-Dichloroethane	100	0.52	U	
78-87-5	1,2-Dichloropropane	100	0.52	U	
108-67-8	1,3,5-Trimethylbenzene	100	1.4	D	J
541-73-1	1,3-Dichlorobenzene	100	0.52	U	UJ
106-46-7	1,4-Dichlorobenzene	100	0.52	U	UJ
123-91-1	1,4-Dioxane	100	~~10~~	U	R
78-93-3	2-Butanone	100	0.52	U	UJ
591-78-6	2-Hexanone	100	0.52	U	
108-10-1	4-Methyl-2-pentanone	100	0.52	U	
67-64-1	Acetone	100	1.0	U	
107-02-8	Acrolein	100	1.0	U	
107-13-1	Acrylonitrile	100	0.52	U	
71-43-2	Benzene	100	2.4	D	J
74-97-5	Bromochloromethane	100	0.52	U	UJ
75-27-4	Bromodichloromethane	100	0.52	U	
75-25-2	Bromoform	100	0.52	U	
74-83-9	Bromomethane	100	0.52	U	
75-15-0	Carbon disulfide	100	0.52	U	
56-23-5	Carbon tetrachloride	100	0.52	U	
108-90-7	Chlorobenzene	100	0.52	U	
75-00-3	Chloroethane	100	0.52	U	
67-66-3	Chloroform	100	0.52	U	
74-87-3	Chloromethane	100	0.52	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.52	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.52	U	
110-82-7	Cyclohexane	100	23	D	J

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0980

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0980-03 | File ID: V2625131.D

Sampled: 11/13/23 09:50 | Prepared: 11/19/23 08:00 | Analyzed: 11/19/23 21:27

Solids: 68.87 | Preparation: EPA 5030B/1311 | Initial/Final: 7 mL / 5 mL

Batch: BK31242 | Sequence: S3K2022 | Calibration: SK30029 | Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.52	U	UJ
74-95-3	Dibromomethane	100	0.52	U	UJ
75-71-8	Dichlorodifluoromethane	100	0.52	U	UJ
100-41-4	Ethyl Benzene	100	2.0	D	J
87-68-3	Hexachlorobutadiene	100	0.52	U	UJ
98-82-8	Isopropylbenzene	100	3.6	D	J
79-20-9	Methyl acetate	100	0.52	U	UJ
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.52	U	UJ
75-09-2	Methylene chloride	100	1.0	U	UJ
104-51-8	n-Butylbenzene	100	4.8	D	J
103-65-1	n-Propylbenzene	100	9.5	D	
95-47-6	o-Xylene	100	0.65	D	
179601-23-1	p- & m- Xylenes	100	2.4	D	
99-87-6	p-Isopropyltoluene	100	1.5	D	
135-98-8	sec-Butylbenzene	100	1.8	D	
100-42-5	Styrene	100	0.52	U	UJ
75-65-0	tert-Butyl alcohol (TBA)	100	0.52	U	
98-06-6	tert-Butylbenzene	100	0.52	U	
127-18-4	Tetrachloroethylene	100	0.52	U	
108-88-3	Toluene	100	0.52	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.52	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.52	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.52	U	
79-01-6	Trichloroethylene	100	0.52	U	
75-69-4	Trichlorofluoromethane	100	0.52	U	
75-01-4	Vinyl Chloride	100	0.52	U	
1330-20-7	Xylenes, Total	100	3.0	D	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	36.5	73.1	77 - 125	D
SURR: Toluene-d8	50.0	48.0	95.9	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	61.9	124	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	399390	5.958	152901	5.958	*
ISTD: Chlorobenzene-d5	993578	9.013	630741	9.019	
ISTD: 1,2-Dichlorobenzene-d4	501386	12.03	302569	12.03	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03RE1	File ID:	V2625147.D
Sampled:	11/13/23 09:50	Prepared:	11/20/23 09:00	Analyzed:	11/20/23 15:31
Solids:	68.87	Preparation:	EPA 5035A	Initial/Final:	7 g / 5 ml
Batch:	BK31257	Sequence:	S3K2123	Calibration:	SK30029
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
108-87-2	Methylcyclohexane	500	81	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	45.3	90.6	77 - 125	D
SURR: Toluene-d8	50.0	46.5	93.1	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	57.7	115	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	235764	5.958	214973	5.952	
ISTD: Chlorobenzene-d5	900517	9.012	868617	9.012	
ISTD: 1,2-Dichlorobenzene-d4	399241	12.03	409593	12.024	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID: V2625118.D

Sampled: 11/13/23 10:00 Prepared: 11/19/23 08:00 Analyzed: 11/19/23 15:01

Solids: 81.84 Preparation: EPA 5030B/1311 Initial/Final: 6.26 mL / 5 mL

Batch: BK31242 Sequence: S3K2022 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0049	U	
71-55-6	1,1,1-Trichloroethane	1	0.0049	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0049	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0049	U	
79-00-5	1,1,2-Trichloroethane	1	0.0049	U	
75-34-3	1,1-Dichloroethane	1	0.0049	U	
75-35-4	1,1-Dichloroethylene	1	0.0049	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0049	U	
96-18-4	1,2,3-Trichloropropane	1	0.0049	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0049	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0049	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0049	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0049	U	
95-50-1	1,2-Dichlorobenzene	1	0.0049	U	
107-06-2	1,2-Dichloroethane	1	0.0049	U	
78-87-5	1,2-Dichloropropane	1	0.0049	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0049	U	
541-73-1	1,3-Dichlorobenzene	1	0.0049	U	
106-46-7	1,4-Dichlorobenzene	1	0.0049	U	
123-91-1	1,4-Dioxane	1	~~0.098~~	U	R
78-93-3	2-Butanone	1	0.0049	U	
591-78-6	2-Hexanone	1	0.0049	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0049	U	UJ
67-64-1	Acetone	1	0.011		J
107-02-8	Acrolein	1	0.0098	U	
107-13-1	Acrylonitrile	1	0.0049	U	
71-43-2	Benzene	1	0.0049	U	
74-97-5	Bromochloromethane	1	0.0049	U	
75-27-4	Bromodichloromethane	1	0.0049	U	
75-25-2	Bromoform	1	0.0049	U	
74-83-9	Bromomethane	1	0.0049	U	
75-15-0	Carbon disulfide	1	0.0049	U	
56-23-5	Carbon tetrachloride	1	0.0049	U	
108-90-7	Chlorobenzene	1	0.0049	U	
75-00-3	Chloroethane	1	0.0049	U	
67-66-3	Chloroform	1	0.0049	U	
74-87-3	Chloromethane	1	0.0049	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0049	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0049	U	
110-82-7	Cyclohexane	1	0.0031	J	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID: V2625118.D

Sampled: 11/13/23 10:00 Prepared: 11/19/23 08:00 Analyzed: 11/19/23 15:01

Solids: 81.84 Preparation: EPA 5030B/1311 Initial/Final: 6.26 mL / 5 mL

Batch: BK31242 Sequence: S3K2022 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0049	U	
74-95-3	Dibromomethane	1	0.0049	U	
75-71-8	Dichlorodifluoromethane	1	0.0049	U	UJ
100-41-4	Ethyl Benzene	1	0.0049	U	
87-68-3	Hexachlorobutadiene	1	0.0049	U	
98-82-8	Isopropylbenzene	1	0.0049	U	
79-20-9	Methyl acetate	1	0.0049	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0049	U	
108-87-2	Methylcyclohexane	1	0.0050		
75-09-2	Methylene chloride	1	0.0098	U	
104-51-8	n-Butylbenzene	1	0.0049	U	
103-65-1	n-Propylbenzene	1	0.0049	U	
95-47-6	o-Xylene	1	0.0049	U	
179601-23-1	p- & m- Xylenes	1	0.0098	U	
99-87-6	p-Isopropyltoluene	1	0.0049	U	
135-98-8	sec-Butylbenzene	1	0.0049	U	
100-42-5	Styrene	1	0.0049	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0049	U	
98-06-6	tert-Butylbenzene	1	0.0049	U	
127-18-4	Tetrachloroethylene	1	0.0049	U	UJ
108-88-3	Toluene	1	0.0049	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0049	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0049	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0049	U	
79-01-6	Trichloroethylene	1	0.0049	U	
75-69-4	Trichlorofluoromethane	1	0.0049	U	
75-01-4	Vinyl Chloride	1	0.0049	U	
1330-20-7	Xylenes, Total	1	0.015	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.4	96.9	77 - 125	
SURR: Toluene-d8	50.0	47.7	95.5	85 - 120	
SURR: p-Bromofluorobenzene	50.0	54.9	110	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	145925	5.958	152901	5.958	
ISTD: Chlorobenzene-d5	600683	9.019	630741	9.019	
ISTD: 1,2-Dichlorobenzene-d4	250086	12.03	302569	12.03	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: V2625145.D

Sampled: 11/13/23 11:20 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 14:35

Solids: 92.23 Preparation: EPA 5035A Initial/Final: 5.35 g / 5 ml

Batch: BK31257 Sequence: S3K2123 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0051	U	
71-55-6	1,1,1-Trichloroethane	1	0.0051	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0051	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0051	U	
79-00-5	1,1,2-Trichloroethane	1	0.0051	U	
75-34-3	1,1-Dichloroethane	1	0.0051	U	
75-35-4	1,1-Dichloroethylene	1	0.0051	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0051	U	
96-18-4	1,2,3-Trichloropropane	1	0.0051	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0051	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0051	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0051	U	
106-93-4	1,2-Dibromoethane	1	0.0051	U	
95-50-1	1,2-Dichlorobenzene	1	0.0051	U	
107-06-2	1,2-Dichloroethane	1	0.0051	U	
78-87-5	1,2-Dichloropropane	1	0.0051	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0051	U	
541-73-1	1,3-Dichlorobenzene	1	0.0051	U	
106-46-7	1,4-Dichlorobenzene	1	0.0051	U	
123-91-1	1,4-Dioxane	1	~~0.10~~	U	R
78-93-3	2-Butanone	1	0.0051	U	
591-78-6	2-Hexanone	1	0.0051	U	
108-10-1	4-Methyl-2-pentanone	1	0.0051	U	UJ
67-64-1	Acetone	1	0.0088	J	J
107-02-8	Acrolein	1	0.010	U	
107-13-1	Acrylonitrile	1	0.0051	U	
71-43-2	Benzene	1	0.0051	U	
74-97-5	Bromochloromethane	1	0.0051	U	
75-27-4	Bromodichloromethane	1	0.0051	U	
75-25-2	Bromoform	1	0.0051	U	
74-83-9	Bromomethane	1	0.0051	U	UJ
75-15-0	Carbon disulfide	1	0.0051	U	
56-23-5	Carbon tetrachloride	1	0.0051	U	
108-90-7	Chlorobenzene	1	0.0051	U	
75-00-3	Chloroethane	1	0.0051	U	UJ
67-66-3	Chloroform	1	0.0051	U	
74-87-3	Chloromethane	1	0.0051	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0051	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0051	U	
110-82-7	Cyclohexane	1	0.0051	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: V2625145.D

Sampled: 11/13/23 11:20 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 14:35

Solids: 92.23 Preparation: EPA 5035A Initial/Final: 5.35 g / 5 ml

Batch: BK31257 Sequence: S3K2123 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0051	U	
74-95-3	Dibromomethane	1	0.0051	U	
75-71-8	Dichlorodifluoromethane	1	0.0051	U	UJ
100-41-4	Ethyl Benzene	1	0.0051	U	
87-68-3	Hexachlorobutadiene	1	0.0051	U	
98-82-8	Isopropylbenzene	1	0.0051	U	
79-20-9	Methyl acetate	1	0.0051	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0051	U	
108-87-2	Methylcyclohexane	1	0.0051	U	
75-09-2	Methylene chloride	1	0.010	U	
104-51-8	n-Butylbenzene	1	0.0051	U	
103-65-1	n-Propylbenzene	1	0.0051	U	
95-47-6	o-Xylene	1	0.0051	U	
179601-23-1	p- & m- Xylenes	1	0.010	U	
99-87-6	p-Isopropyltoluene	1	0.0051	U	
135-98-8	sec-Butylbenzene	1	0.0051	U	
100-42-5	Styrene	1	0.0051	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0051	U	
98-06-6	tert-Butylbenzene	1	0.0051	U	
127-18-4	Tetrachloroethylene	1	0.0051	U	UJ
108-88-3	Toluene	1	0.0051	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0051	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0051	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0051	U	
79-01-6	Trichloroethylene	1	0.0051	U	
75-69-4	Trichlorofluoromethane	1	0.0051	U	
75-01-4	Vinyl Chloride	1	0.0051	U	
1330-20-7	Xylenes, Total	1	0.015	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	48.9	97.8	77 - 125	
SURR: Toluene-d8	50.0	48.6	97.2	85 - 120	
SURR: p-Bromofluorobenzene	50.0	55.6	111	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	138434	5.958	214973	5.952	
ISTD: Chlorobenzene-d5	563851	9.012	868617	9.012	
ISTD: 1,2-Dichlorobenzene-d4	224030	12.03	409593	12.024	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID: V2625132.D

Sampled: 11/13/23 11:45 Prepared: 11/19/23 08:00 Analyzed: 11/19/23 21:55

Solids: 77.43 Preparation: EPA 5030B/1311 Initial/Final: 4.49 mL / 5 mL

Batch: BK31242 Sequence: S3K2022 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	0.72	U	
71-55-6	1,1,1-Trichloroethane	100	0.72	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	0.72	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	0.72	U	
79-00-5	1,1,2-Trichloroethane	100	0.72	U	
75-34-3	1,1-Dichloroethane	100	0.72	U	
75-35-4	1,1-Dichloroethylene	100	0.72	U	
87-61-6	1,2,3-Trichlorobenzene	100	0.72	U	
96-18-4	1,2,3-Trichloropropane	100	0.72	U	
120-82-1	1,2,4-Trichlorobenzene	100	0.72	U	
95-63-6	1,2,4-Trimethylbenzene	100	0.72	U	
96-12-8	1,2-Dibromo-3-chloropropane	100	0.72	U	UJ
106-93-4	1,2-Dibromoethane	100	0.72	U	
95-50-1	1,2-Dichlorobenzene	100	0.72	U	
107-06-2	1,2-Dichloroethane	100	0.72	U	
78-87-5	1,2-Dichloropropane	100	0.72	U	
108-67-8	1,3,5-Trimethylbenzene	100	0.72	U	
541-73-1	1,3-Dichlorobenzene	100	0.72	U	
106-46-7	1,4-Dichlorobenzene	100	0.72	U	
123-91-1	1,4-Dioxane	100	~~14~~	U	R
78-93-3	2-Butanone	100	0.72	U	
591-78-6	2-Hexanone	100	0.72	U	UJ
108-10-1	4-Methyl-2-pentanone	100	0.72	U	UJ
67-64-1	Acetone	100	1.4	U	UJ
107-02-8	Acrolein	100	1.4	U	
107-13-1	Acrylonitrile	100	0.72	U	
71-43-2	Benzene	100	0.72	U	
74-97-5	Bromochloromethane	100	0.72	U	
75-27-4	Bromodichloromethane	100	0.72	U	
75-25-2	Bromoform	100	0.72	U	
74-83-9	Bromomethane	100	0.72	U	
75-15-0	Carbon disulfide	100	0.72	U	
56-23-5	Carbon tetrachloride	100	0.72	U	
108-90-7	Chlorobenzene	100	0.72	U	
75-00-3	Chloroethane	100	0.72	U	
67-66-3	Chloroform	100	0.72	U	
74-87-3	Chloromethane	100	0.72	U	
156-59-2	cis-1,2-Dichloroethylene	100	0.72	U	
10061-01-5	cis-1,3-Dichloropropylene	100	0.72	U	
110-82-7	Cyclohexane	100	15	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID: V2625132.D

Sampled: 11/13/23 11:45 Prepared: 11/19/23 08:00 Analyzed: 11/19/23 21:55

Solids: 77.43 Preparation: EPA 5030B/1311 Initial/Final: 4.49 mL / 5 mL

Batch: BK31242 Sequence: S3K2022 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	0.72	U	
74-95-3	Dibromomethane	100	0.72	U	
75-71-8	Dichlorodifluoromethane	100	0.72	U	UJ
100-41-4	Ethyl Benzene	100	0.72	U	
87-68-3	Hexachlorobutadiene	100	0.72	U	
98-82-8	Isopropylbenzene	100	2.2	D	
79-20-9	Methyl acetate	100	0.72	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	100	0.72	U	
108-87-2	Methylcyclohexane	100	42	D	
75-09-2	Methylene chloride	100	1.4	U	
104-51-8	n-Butylbenzene	100	4.5	D	
103-65-1	n-Propylbenzene	100	6.0	D	
95-47-6	o-Xylene	100	0.72	U	
179601-23-1	p- & m- Xylenes	100	1.4	U	
99-87-6	p-Isopropyltoluene	100	1.2	D	
135-98-8	sec-Butylbenzene	100	1.6	D	
100-42-5	Styrene	100	0.72	U	
75-65-0	tert-Butyl alcohol (TBA)	100	0.72	U	
98-06-6	tert-Butylbenzene	100	0.72	U	
127-18-4	Tetrachloroethylene	100	0.72	U	UJ
108-88-3	Toluene	100	0.72	U	
156-60-5	trans-1,2-Dichloroethylene	100	0.72	U	
10061-02-6	trans-1,3-Dichloropropylene	100	0.72	U	
110-57-6	trans-1,4-dichloro-2-butene	100	0.72	U	
79-01-6	Trichloroethylene	100	0.72	U	
75-69-4	Trichlorofluoromethane	100	0.72	U	
75-01-4	Vinyl Chloride	100	0.72	U	
1330-20-7	Xylenes, Total	100	2.2	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	42.4	84.8	77 - 125	D
SURR: Toluene-d8	50.0	47.6	95.2	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	61.6	123	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	300814	5.952	152901	5.958	
ISTD: Chlorobenzene-d5	964952	9.013	630741	9.019	
ISTD: 1,2-Dichlorobenzene-d4	470610	12.03	302569	12.03	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID: V2625146.D

Sampled: 11/13/23 11:50 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 15:03

Solids: 62.21 Preparation: EPA 5035A Initial/Final: 3.56 g / 5 ml

Batch: BK31257 Sequence: S3K2123 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	100	1.1	U	
71-55-6	1,1,1-Trichloroethane	100	1.1	U	
79-34-5	1,1,2,2-Tetrachloroethane	100	1.1	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	100	1.1	U	
79-00-5	1,1,2-Trichloroethane	100	1.1	U	
75-34-3	1,1-Dichloroethane	100	1.1	U	
75-35-4	1,1-Dichloroethylene	100	1.1	U	
87-61-6	1,2,3-Trichlorobenzene	100	1.1	U	
96-18-4	1,2,3-Trichloropropane	100	1.1	U	
120-82-1	1,2,4-Trichlorobenzene	100	1.1	U	
95-63-6	1,2,4-Trimethylbenzene	100	0.58	JD	J
96-12-8	1,2-Dibromo-3-chloropropane	100	1.1	U	
106-93-4	1,2-Dibromoethane	100	1.1	U	
95-50-1	1,2-Dichlorobenzene	100	1.1	U	
107-06-2	1,2-Dichloroethane	100	1.1	U	
78-87-5	1,2-Dichloropropane	100	1.1	U	
108-67-8	1,3,5-Trimethylbenzene	100	1.1	U	
541-73-1	1,3-Dichlorobenzene	100	1.1	U	
106-46-7	1,4-Dichlorobenzene	100	1.1	U	
123-91-1	1,4-Dioxane	100	~~23~~	U	R
78-93-3	2-Butanone	100	1.1	U	
591-78-6	2-Hexanone	100	1.1	U	
108-10-1	4-Methyl-2-pentanone	100	1.1	U	UJ
67-64-1	Acetone	100	2.3	U	UJ
107-02-8	Acrolein	100	2.3	U	
107-13-1	Acrylonitrile	100	1.1	U	
71-43-2	Benzene	100	2.6	D	J
74-97-5	Bromochloromethane	100	1.1	U	
75-27-4	Bromodichloromethane	100	1.1	U	
75-25-2	Bromoform	100	1.1	U	
74-83-9	Bromomethane	100	1.1	U	UJ
75-15-0	Carbon disulfide	100	1.1	U	
56-23-5	Carbon tetrachloride	100	1.1	U	
108-90-7	Chlorobenzene	100	1.1	U	
75-00-3	Chloroethane	100	1.1	U	UJ
67-66-3	Chloroform	100	1.1	U	
74-87-3	Chloromethane	100	1.1	U	
156-59-2	cis-1,2-Dichloroethylene	100	1.1	U	
10061-01-5	cis-1,3-Dichloropropylene	100	1.1	U	
110-82-7	Cyclohexane	100	34	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID: V2625146.D

Sampled: 11/13/23 11:50 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 15:03

Solids: 62.21 Preparation: EPA 5035A Initial/Final: 3.56 g / 5 ml

Batch: BK31257 Sequence: S3K2123 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	100	1.1	U	
74-95-3	Dibromomethane	100	1.1	U	
75-71-8	Dichlorodifluoromethane	100	1.1	U	UJ
100-41-4	Ethyl Benzene	100	1.1	U	
87-68-3	Hexachlorobutadiene	100	1.1	U	
98-82-8	Isopropylbenzene	100	6.6	D	J
79-20-9	Methyl acetate	100	1.1	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	100	1.1	U	
108-87-2	Methylcyclohexane	100	46	D	J
75-09-2	Methylene chloride	100	2.3	U	
104-51-8	n-Butylbenzene	100	9.6	D	J
103-65-1	n-Propylbenzene	100	15	D	J
95-47-6	o-Xylene	100	1.1	U	
179601-23-1	p- & m- Xylenes	100	2.8	D	J
99-87-6	p-Isopropyltoluene	100	0.84	JD	J
135-98-8	sec-Butylbenzene	100	5.5	D	J
100-42-5	Styrene	100	1.1	U	
75-65-0	tert-Butyl alcohol (TBA)	100	1.1	U	
98-06-6	tert-Butylbenzene	100	1.1	U	
127-18-4	Tetrachloroethylene	100	1.1	U	UJ
108-88-3	Toluene	100	2.1	D	J
156-60-5	trans-1,2-Dichloroethylene	100	1.1	U	
10061-02-6	trans-1,3-Dichloropropylene	100	1.1	U	
110-57-6	trans-1,4-dichloro-2-butene	100	1.1	U	
79-01-6	Trichloroethylene	100	1.1	U	
75-69-4	Trichlorofluoromethane	100	1.1	U	
75-01-4	Vinyl Chloride	100	1.1	U	
1330-20-7	Xylenes, Total	100	2.8	JD	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	44.1	88.2	77 - 125	D
SURR: Toluene-d8	50.0	45.0	90.0	85 - 120	D
SURR: p-Bromofluorobenzene	50.0	69.7	139	76 - 130	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	238854	5.958	214973	5.952	
ISTD: Chlorobenzene-d5	893637	9.012	868617	9.012	
ISTD: 1,2-Dichlorobenzene-d4	439533	12.024	409593	12.024	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (22.5-25 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-08	File ID:	V2625129.D
Sampled:	11/13/23 12:00	Prepared:	11/19/23 08:00	Analyzed:	11/19/23 20:32
Solids:	68.00	Preparation:	EPA 5030B/1311	Initial/Final:	6.22 mL / 5 mL
Batch:	BK31242	Sequence:	S3K2022	Calibration:	SK30029
Instrument:	MS VOA 2				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.0059	U	
71-55-6	1,1,1-Trichloroethane	1	0.0059	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.0059	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.0059	U	
79-00-5	1,1,2-Trichloroethane	1	0.0059	U	
75-34-3	1,1-Dichloroethane	1	0.0059	U	
75-35-4	1,1-Dichloroethylene	1	0.0059	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.0059	U	
96-18-4	1,2,3-Trichloropropane	1	0.0059	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.0059	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.0059	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.0059	U	UJ
106-93-4	1,2-Dibromoethane	1	0.0059	U	
95-50-1	1,2-Dichlorobenzene	1	0.0059	U	
107-06-2	1,2-Dichloroethane	1	0.0059	U	
78-87-5	1,2-Dichloropropane	1	0.0059	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.0059	U	
541-73-1	1,3-Dichlorobenzene	1	0.0059	U	
106-46-7	1,4-Dichlorobenzene	1	0.0059	U	
123-91-1	1,4-Dioxane	1	~~0.12~~	U	R
78-93-3	2-Butanone	1	0.0059	U	
591-78-6	2-Hexanone	1	0.0059	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.0059	U	UJ
67-64-1	Acetone	1	0.042		J
107-02-8	Acrolein	1	0.012	U	
107-13-1	Acrylonitrile	1	0.0059	U	
71-43-2	Benzene	1	0.0059	U	
74-97-5	Bromochloromethane	1	0.0059	U	
75-27-4	Bromodichloromethane	1	0.0059	U	
75-25-2	Bromoform	1	0.0059	U	
74-83-9	Bromomethane	1	0.0059	U	
75-15-0	Carbon disulfide	1	0.011		
56-23-5	Carbon tetrachloride	1	0.0059	U	
108-90-7	Chlorobenzene	1	0.0059	U	
75-00-3	Chloroethane	1	0.0059	U	
67-66-3	Chloroform	1	0.0059	U	
74-87-3	Chloromethane	1	0.0059	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.0059	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.0059	U	
110-82-7	Cyclohexane	1	0.0049	J	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID: V2625129.D

Sampled: 11/13/23 12:00 Prepared: 11/19/23 08:00 Analyzed: 11/19/23 20:32

Solids: 68.00 Preparation: EPA 5030B/1311 Initial/Final: 6.22 mL / 5 mL

Batch: BK31242 Sequence: S3K2022 Calibration: SK30029 Instrument: MS VOA 2

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
124-48-1	Dibromochloromethane	1	0.0059	U	
74-95-3	Dibromomethane	1	0.0059	U	
75-71-8	Dichlorodifluoromethane	1	0.0059	U	UJ
100-41-4	Ethyl Benzene	1	0.0059	U	
87-68-3	Hexachlorobutadiene	1	0.0059	U	
98-82-8	Isopropylbenzene	1	0.0059	U	
79-20-9	Methyl acetate	1	0.0059	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.0059	U	
108-87-2	Methylcyclohexane	1	0.0045	J	
75-09-2	Methylene chloride	1	0.012	U	
104-51-8	n-Butylbenzene	1	0.0059	U	
103-65-1	n-Propylbenzene	1	0.0059	U	
95-47-6	o-Xylene	1	0.0059	U	
179601-23-1	p- & m- Xylenes	1	0.012	U	
99-87-6	p-Isopropyltoluene	1	0.0059	U	
135-98-8	sec-Butylbenzene	1	0.0059	U	
100-42-5	Styrene	1	0.0059	U	
75-65-0	tert-Butyl alcohol (TBA)	1	0.0059	U	
98-06-6	tert-Butylbenzene	1	0.0059	U	
127-18-4	Tetrachloroethylene	1	0.0059	U	UJ
108-88-3	Toluene	1	0.0059	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.0059	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.0059	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.0059	U	
79-01-6	Trichloroethylene	1	0.0059	U	
75-69-4	Trichlorofluoromethane	1	0.0059	U	
75-01-4	Vinyl Chloride	1	0.0059	U	
1330-20-7	Xylenes, Total	1	0.018	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	50.0	51.8	104	77 - 125	
SURR: Toluene-d8	50.0	47.8	95.6	85 - 120	
SURR: p-Bromofluorobenzene	50.0	59.3	119	76 - 130	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	232034	5.958	152901	5.958	
ISTD: Chlorobenzene-d5	903724	9.019	630741	9.019	
ISTD: 1,2-Dichlorobenzene-d4	373450	12.03	302569	12.03	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0980-09 File ID: V841404.D

Sampled: 11/13/23 15:00 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 13:17

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31296 Sequence: S3K2125 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	UJ
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0980-09 File ID: V841404.D

Sampled: 11/13/23 15:00 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 13:17

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31296 Sequence: S3K2125 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	UJ
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.3	113	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.95	99.5	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	109307	5.79	148455	5.79	
ISTD: Chlorobenzene-d5	507606	8.817	631692	8.812	
ISTD: 1,2-Dichlorobenzene-d4	207116	11.806	305048	11.806	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0980-10 File ID: V841416.D

Sampled: 11/13/23 15:00 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 18:55

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31296 Sequence: S3K2125 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	UJ
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K0980-10 File ID: V841416.D

Sampled: 11/13/23 15:00 Prepared: 11/20/23 09:00 Analyzed: 11/20/23 18:55

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31296 Sequence: S3K2125 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	UJ
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	9.70	97.0	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	142081	5.79	148455	5.79	
ISTD: Chlorobenzene-d5	621529	8.817	631692	8.812	
ISTD: 1,2-Dichlorobenzene-d4	250994	11.806	305048	11.806	

* Values outside of QC limits

MKP 2/6/2024

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
CLASS: SVOA
METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (12.5-15 ft)	23K0980-02RE2
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (15-17.5 ft)	23K0980-03RE2
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: E70351702.D

Sampled: 11/13/23 09:15 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 11:47

Solids: 86.66 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0940	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.188	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0940	U	
95-50-1	1,2-Dichlorobenzene	2	0.0940	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0940	U	
541-73-1	1,3-Dichlorobenzene	2	0.0940	U	
106-46-7	1,4-Dichlorobenzene	2	0.0940	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.188	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0940	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0940	U	
120-83-2	2,4-Dichlorophenol	2	0.0940	U	
105-67-9	2,4-Dimethylphenol	2	0.0940	U	
51-28-5	2,4-Dinitrophenol	2	~~0.188~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0940	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0940	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0940	U	
95-57-8	2-Chlorophenol	2	0.0940	U	
91-57-6	2-Methylnaphthalene	2	0.0940	U	
95-48-7	2-Methylphenol	2	0.0940	U	
88-74-4	2-Nitroaniline	2	0.188	U	
88-75-5	2-Nitrophenol	2	0.0940	U	
65794-96-9	3- & 4-Methylphenols	2	0.0940	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0940	U	
99-09-2	3-Nitroaniline	2	0.188	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.188~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0940	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0940	U	
106-47-8	4-Chloroaniline	2	0.0940	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0940	U	
100-01-6	4-Nitroaniline	2	0.188	U	
100-02-7	4-Nitrophenol	2	0.188	U	
83-32-9	Acenaphthene	2	0.0940	U	
208-96-8	Acenaphthylene	2	0.144	D	
98-86-2	Acetophenone	2	0.0940	U	
62-53-3	Aniline	2	0.377	U	
120-12-7	Anthracene	2	0.129	D	
1912-24-9	Atrazine	2	0.0940	U	
100-52-7	Benzaldehyde	2	0.0872	JD	
92-87-5	Benzidine	2	0.377	U	
56-55-3	Benzo(a)anthracene	2	0.707	D	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: E70351702.D

Sampled: 11/13/23 09:15 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 11:47

Solids: 86.66 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.924	D	
205-99-2	Benzo(b)fluoranthene	2	0.788	D	
191-24-2	Benzo(g,h,i)perylene	2	0.749	D	
207-08-9	Benzo(k)fluoranthene	2	0.610	D	
65-85-0	Benzoic acid	2	0.0940	U	UJ
100-51-6	Benzyl alcohol	2	0.0940	U	
85-68-7	Benzyl butyl phthalate	2	0.0940	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0940	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0940	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0940	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0940	U	
105-60-2	Caprolactam	2	0.188	U	
86-74-8	Carbazole	2	0.0940	U	
218-01-9	Chrysene	2	0.675	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.148	D	
132-64-9	Dibenzofuran	2	0.0940	U	
84-66-2	Diethyl phthalate	2	0.0940	U	
131-11-3	Dimethyl phthalate	2	0.0940	U	
84-74-2	Di-n-butyl phthalate	2	0.0940	U	
117-84-0	Di-n-octyl phthalate	2	0.0940	U	UJ
122-39-4	Diphenylamine	2	0.188	U	
206-44-0	Fluoranthene	2	0.913	D	
86-73-7	Fluorene	2	0.0940	U	
118-74-1	Hexachlorobenzene	2	0.0940	U	
87-68-3	Hexachlorobutadiene	2	0.0940	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0940	U	UJ
67-72-1	Hexachloroethane	2	0.0940	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.820	D	
78-59-1	Isophorone	2	0.0940	U	
91-20-3	Naphthalene	2	0.0940	U	
98-95-3	Nitrobenzene	2	0.0940	U	
62-75-9	N-Nitrosodimethylamine	2	0.0940	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0940	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0940	U	
87-86-5	Pentachlorophenol	2	0.0940	U	
85-01-8	Phenanthrene	2	0.270	D	
108-95-2	Phenol	2	0.0940	U	
129-00-0	Pyrene	2	1.13	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-01	File ID:	E70351702.D
Sampled:	11/13/23 09:15	Prepared:	11/21/23 08:41	Analyzed:	11/22/23 11:47
Solids:	86.66	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31385	Sequence:	S3K2243	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.88	0.634	33.8	20 - 108	
SURR: Phenol-d6	1.88	0.668	35.5	23 - 114	
SURR: Nitrobenzene-d5	0.940	0.378	40.2	22 - 108	
SURR: 2-Fluorobiphenyl	0.940	0.367	39.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.88	0.890	47.4	19 - 110	
SURR: Terphenyl-d14	0.940	0.388	41.3	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	590363	4.754	575781	4.754	
ISTD: Naphthalene-d8	2477161	5.789	2682655	5.795	
ISTD: Acenaphthene-d10	1451913	7.436	1458413	7.441	
ISTD: Phenanthrene-d10	2521581	9.455	2505185	9.46	
ISTD: Chrysene-d12	1725078	14.063	1954702	14.062	
ISTD: Perylene-d12	1872337	17.07	2025318	17.064	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID: E70351703.D

Sampled: 11/13/23 09:30 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 12:17

Solids: 84.14 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0674	JD	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.193	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0969	U	
95-50-1	1,2-Dichlorobenzene	2	0.0969	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0969	U	
541-73-1	1,3-Dichlorobenzene	2	0.0969	U	
106-46-7	1,4-Dichlorobenzene	2	0.0969	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.193	U	
95-95-4	2,4,5-Trichlorophenol	2	0.0969	U	
88-06-2	2,4,6-Trichlorophenol	2	0.0969	U	
120-83-2	2,4-Dichlorophenol	2	0.0969	U	
105-67-9	2,4-Dimethylphenol	2	0.0969	U	
51-28-5	2,4-Dinitrophenol	2	~~0.193~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0969	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0969	U	UJ
91-58-7	2-Chloronaphthalene	2	0.0969	U	
95-57-8	2-Chlorophenol	2	0.0969	U	
95-48-7	2-Methylphenol	2	0.0969	U	
88-74-4	2-Nitroaniline	2	0.193	U	
88-75-5	2-Nitrophenol	2	0.0969	U	
65794-96-9	3- & 4-Methylphenols	2	0.0969	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0969	U	
99-09-2	3-Nitroaniline	2	0.193	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.193~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0969	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0969	U	
106-47-8	4-Chloroaniline	2	0.0969	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0969	U	
100-01-6	4-Nitroaniline	2	0.193	U	
100-02-7	4-Nitrophenol	2	0.193	U	
83-32-9	Acenaphthene	2	0.296	D	
208-96-8	Acenaphthylene	2	0.0969	U	
98-86-2	Acetophenone	2	0.0969	U	
62-53-3	Aniline	2	0.388	U	
120-12-7	Anthracene	2	0.234	D	
1912-24-9	Atrazine	2	0.0969	U	
100-52-7	Benzaldehyde	2	0.0969	U	
92-87-5	Benzidine	2	0.388	U	
56-55-3	Benzo(a)anthracene	2	0.559	D	
50-32-8	Benzo(a)pyrene	2	0.501	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID: E70351703.D

Sampled: 11/13/23 09:30 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 12:17

Solids: 84.14 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
205-99-2	Benzo(b)fluoranthene	2	0.434	D	
191-24-2	Benzo(g,h,i)perylene	2	0.293	D	
207-08-9	Benzo(k)fluoranthene	2	0.379	D	
65-85-0	Benzoic acid	2	0.0969	U	UJ
100-51-6	Benzyl alcohol	2	0.0969	U	
85-68-7	Benzyl butyl phthalate	2	0.0969	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.0969	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0969	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0969	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0969	U	
105-60-2	Caprolactam	2	0.193	U	
86-74-8	Carbazole	2	0.0969	U	
218-01-9	Chrysene	2	0.561	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.0759	JD	
132-64-9	Dibenzofuran	2	0.0712	JD	
84-66-2	Diethyl phthalate	2	0.0969	U	
131-11-3	Dimethyl phthalate	2	0.0969	U	
84-74-2	Di-n-butyl phthalate	2	0.0969	U	
117-84-0	Di-n-octyl phthalate	2	0.0969	U	UJ
122-39-4	Diphenylamine	2	0.193	U	
206-44-0	Fluoranthene	2	1.29	D	
86-73-7	Fluorene	2	0.239	D	
118-74-1	Hexachlorobenzene	2	0.0969	U	
87-68-3	Hexachlorobutadiene	2	0.0969	U	
77-47-4	Hexachlorocyclopentadiene	2	0.0969	U	UJ
67-72-1	Hexachloroethane	2	0.0969	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.355	D	
78-59-1	Isophorone	2	0.0969	U	
98-95-3	Nitrobenzene	2	0.0969	U	
62-75-9	N-Nitrosodimethylamine	2	0.0969	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.0969	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0969	U	
87-86-5	Pentachlorophenol	2	0.0969	U	
85-01-8	Phenanthrene	2	1.10	D	
108-95-2	Phenol	2	0.0969	U	
129-00-0	Pyrene	2	1.59	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.94	1.27	65.7	20 - 108	
SURR: Phenol-d6	1.94	1.15	59.6	23 - 114	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02	File ID:	E70351703.D
Sampled:	11/13/23 09:30	Prepared:	11/21/23 08:41	Analyzed:	11/22/23 12:17
Solids:	84.14	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31385	Sequence:	S3K2243	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	0.968	0.00		22 - 108	*
SURR: 2-Fluorobiphenyl	0.968	0.486	50.2	21 - 113	
SURR: 2,4,6-Tribromophenol	1.94	1.42	73.5	19 - 110	
SURR: Terphenyl-d14	0.968	0.571	59.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	650086	4.759	575781	4.754	
ISTD: Naphthalene-d8	2786461	5.801	2682655	5.795	
ISTD: Acenaphthene-d10	1355495	7.442	1458413	7.441	
ISTD: Phenanthrene-d10	2585169	9.46	2505185	9.46	
ISTD: Chrysene-d12	1841501	14.086	1954702	14.062	
ISTD: Perylene-d12	2017995	17.099	2025318	17.064	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02RE2	File ID:	E70351710.D
Sampled:	11/13/23 09:30	Prepared:	11/21/23 08:41	Analyzed:	11/22/23 15:51
Solids:	84.14	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31385	Sequence:	S3K2243	Calibration:	SK30004
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	10	12.6	D
91-20-3	Naphthalene	10	0.484	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.94	1.48	76.4	20 - 108	
SURR: Phenol-d6	1.94	1.26	65.2	23 - 114	
SURR: Nitrobenzene-d5	0.968	0.00		22 - 108	*
SURR: 2-Fluorobiphenyl	0.968	0.546	56.4	21 - 113	
SURR: 2,4,6-Tribromophenol	1.94	1.61	83.2	19 - 110	
SURR: Terphenyl-d14	0.968	0.600	62.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	488455	4.754	575781	4.754	
ISTD: Naphthalene-d8	2069117	5.795	2682655	5.795	
ISTD: Acenaphthene-d10	1150383	7.442	1458413	7.441	
ISTD: Phenanthrene-d10	2137677	9.455	2505185	9.46	
ISTD: Chrysene-d12	1604181	14.068	1954702	14.062	
ISTD: Perylene-d12	1740884	17.07	2025318	17.064	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID: E70351704.D

Sampled: 11/13/23 09:50 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 12:48

Solids: 68.87 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.119	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.238	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.119	U	
95-50-1	1,2-Dichlorobenzene	2	0.119	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.119	U	
541-73-1	1,3-Dichlorobenzene	2	0.119	U	
106-46-7	1,4-Dichlorobenzene	2	0.119	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.238	U	
95-95-4	2,4,5-Trichlorophenol	2	0.119	U	
88-06-2	2,4,6-Trichlorophenol	2	0.119	U	
120-83-2	2,4-Dichlorophenol	2	0.119	U	
105-67-9	2,4-Dimethylphenol	2	0.119	U	
51-28-5	2,4-Dinitrophenol	2	~~0.238~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.119	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.119	U	UJ
91-58-7	2-Chloronaphthalene	2	0.119	U	
95-57-8	2-Chlorophenol	2	0.119	U	
95-48-7	2-Methylphenol	2	0.119	U	
88-74-4	2-Nitroaniline	2	0.238	U	
88-75-5	2-Nitrophenol	2	0.119	U	
65794-96-9	3- & 4-Methylphenols	2	0.119	U	
91-94-1	3,3-Dichlorobenzidine	2	0.119	U	
99-09-2	3-Nitroaniline	2	0.238	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.238~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.119	U	
59-50-7	4-Chloro-3-methylphenol	2	0.119	U	
106-47-8	4-Chloroaniline	2	0.119	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.119	U	
100-01-6	4-Nitroaniline	2	0.238	U	
100-02-7	4-Nitrophenol	2	0.238	U	
83-32-9	Acenaphthene	2	0.211	D	
208-96-8	Acenaphthylene	2	0.119	U	
98-86-2	Acetophenone	2	0.119	U	
62-53-3	Aniline	2	0.477	U	
120-12-7	Anthracene	2	0.179	D	
1912-24-9	Atrazine	2	0.119	U	
100-52-7	Benzaldehyde	2	0.119	U	
92-87-5	Benzidine	2	0.477	U	
56-55-3	Benzo(a)anthracene	2	0.572	D	
50-32-8	Benzo(a)pyrene	2	0.546	D	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID: E70351704.D

Sampled: 11/13/23 09:50 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 12:48

Solids: 68.87 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
205-99-2	Benzo(b)fluoranthene	2	0.444	D	
191-24-2	Benzo(g,h,i)perylene	2	0.329	D	
207-08-9	Benzo(k)fluoranthene	2	0.380	D	
65-85-0	Benzoic acid	2	0.119	U	UJ
100-51-6	Benzyl alcohol	2	0.119	U	
85-68-7	Benzyl butyl phthalate	2	0.119	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.119	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.119	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.119	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.119	U	
105-60-2	Caprolactam	2	0.238	U	
86-74-8	Carbazole	2	0.119	U	
218-01-9	Chrysene	2	0.531	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.0800	JD	
132-64-9	Dibenzofuran	2	0.119	U	
84-66-2	Diethyl phthalate	2	0.119	U	
131-11-3	Dimethyl phthalate	2	0.119	U	
84-74-2	Di-n-butyl phthalate	2	0.119	U	
117-84-0	Di-n-octyl phthalate	2	0.119	U	UJ
122-39-4	Diphenylamine	2	0.238	U	
206-44-0	Fluoranthene	2	1.25	D	
86-73-7	Fluorene	2	0.166	D	
118-74-1	Hexachlorobenzene	2	0.119	U	
87-68-3	Hexachlorobutadiene	2	0.119	U	
77-47-4	Hexachlorocyclopentadiene	2	0.119	U	UJ
67-72-1	Hexachloroethane	2	0.119	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.378	D	
78-59-1	Isophorone	2	0.119	U	
98-95-3	Nitrobenzene	2	0.119	U	
62-75-9	N-Nitrosodimethylamine	2	0.119	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.119	U	
86-30-6	N-Nitrosodiphenylamine	2	0.119	U	
87-86-5	Pentachlorophenol	2	0.119	U	
85-01-8	Phenanthrene	2	0.825	D	
108-95-2	Phenol	2	0.119	U	
129-00-0	Pyrene	2	1.41	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.38	1.63	68.6	20 - 108	
SURR: Phenol-d6	2.38	1.49	62.8	23 - 114	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03	File ID:	E70351704.D
Sampled:	11/13/23 09:50	Prepared:	11/21/23 08:41	Analyzed:	11/22/23 12:48
Solids:	68.87	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31385	Sequence:	S3K2243	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: Nitrobenzene-d5	1.19	0.00		22 - 108	*
SURR: 2-Fluorobiphenyl	1.19	0.640	53.8	21 - 113	
SURR: 2,4,6-Tribromophenol	2.38	1.82	76.3	19 - 110	
SURR: Terphenyl-d14	1.19	0.660	55.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	526380	4.754	575781	4.754	
ISTD: Naphthalene-d8	2311103	5.795	2682655	5.795	
ISTD: Acenaphthene-d10	1154179	7.442	1458413	7.441	
ISTD: Phenanthrene-d10	2144193	9.461	2505185	9.46	
ISTD: Chrysene-d12	1669753	14.068	1954702	14.062	
ISTD: Perylene-d12	1810210	17.076	2025318	17.064	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03RE2	File ID:	E70351711.D
Sampled:	11/13/23 09:50	Prepared:	11/21/23 08:41	Analyzed:	11/22/23 16:22
Solids:	68.87	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31385	Sequence:	S3K2243	Calibration:	SK30004
Instrument:	BNA #7				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
91-57-6	2-Methylnaphthalene	5	6.92	D
91-20-3	Naphthalene	5	6.96	D

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.38	1.58	66.3	20 - 108	
SURR: Phenol-d6	2.38	1.52	63.9	23 - 114	
SURR: Nitrobenzene-d5	1.19	0.00		22 - 108	*
SURR: 2-Fluorobiphenyl	1.19	0.619	52.0	21 - 113	
SURR: 2,4,6-Tribromophenol	2.38	1.60	67.4	19 - 110	
SURR: Terphenyl-d14	1.19	0.638	53.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	499300	4.754	575781	4.754	
ISTD: Naphthalene-d8	2079700	5.795	2682655	5.795	
ISTD: Acenaphthene-d10	1131962	7.442	1458413	7.441	
ISTD: Phenanthrene-d10	2103103	9.455	2505185	9.46	
ISTD: Chrysene-d12	1572309	14.063	1954702	14.062	
ISTD: Perylene-d12	1678738	17.07	2025318	17.064	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID: E70351705.D

Sampled: 11/13/23 10:00 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 13:18

Solids: 81.84 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.100	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.200	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.100	U	
95-50-1	1,2-Dichlorobenzene	2	0.100	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.100	U	
541-73-1	1,3-Dichlorobenzene	2	0.100	U	
106-46-7	1,4-Dichlorobenzene	2	0.100	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.200	U	
95-95-4	2,4,5-Trichlorophenol	2	0.100	U	
88-06-2	2,4,6-Trichlorophenol	2	0.100	U	
120-83-2	2,4-Dichlorophenol	2	0.100	U	
105-67-9	2,4-Dimethylphenol	2	0.100	U	
51-28-5	2,4-Dinitrophenol	2	~~0.200~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.100	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.100	U	UJ
91-58-7	2-Chloronaphthalene	2	0.100	U	
95-57-8	2-Chlorophenol	2	0.100	U	
91-57-6	2-Methylnaphthalene	2	0.100	U	
95-48-7	2-Methylphenol	2	0.100	U	
88-74-4	2-Nitroaniline	2	0.200	U	
88-75-5	2-Nitrophenol	2	0.100	U	
65794-96-9	3- & 4-Methylphenols	2	0.100	U	
91-94-1	3,3-Dichlorobenzidine	2	0.100	U	
99-09-2	3-Nitroaniline	2	0.200	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.200~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.100	U	
59-50-7	4-Chloro-3-methylphenol	2	0.100	U	
106-47-8	4-Chloroaniline	2	0.100	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.100	U	
100-01-6	4-Nitroaniline	2	0.200	U	
100-02-7	4-Nitrophenol	2	0.200	U	
83-32-9	Acenaphthene	2	0.100	U	
208-96-8	Acenaphthylene	2	0.100	U	
98-86-2	Acetophenone	2	0.100	U	
62-53-3	Aniline	2	0.401	U	
120-12-7	Anthracene	2	0.100	U	
1912-24-9	Atrazine	2	0.100	U	
100-52-7	Benzaldehyde	2	0.100	U	
92-87-5	Benzidine	2	0.401	U	
56-55-3	Benzo(a)anthracene	2	0.100	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID: E70351705.D

Sampled: 11/13/23 10:00 Prepared: 11/21/23 08:41 Analyzed: 11/22/23 13:18

Solids: 81.84 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31385 Sequence: S3K2243 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.100	U	
205-99-2	Benzo(b)fluoranthene	2	0.100	U	
191-24-2	Benzo(g,h,i)perylene	2	0.100	U	
207-08-9	Benzo(k)fluoranthene	2	0.100	U	
65-85-0	Benzoic acid	2	0.100	U	UJ
100-51-6	Benzyl alcohol	2	0.100	U	
85-68-7	Benzyl butyl phthalate	2	0.100	U	
111-91-1	Bis(2-chloroethoxy)methane	2	0.100	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.100	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.100	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.100	U	
105-60-2	Caprolactam	2	0.200	U	
86-74-8	Carbazole	2	0.100	U	
218-01-9	Chrysene	2	0.100	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.100	U	
132-64-9	Dibenzofuran	2	0.100	U	
84-66-2	Diethyl phthalate	2	0.100	U	
131-11-3	Dimethyl phthalate	2	0.100	U	
84-74-2	Di-n-butyl phthalate	2	0.100	U	
117-84-0	Di-n-octyl phthalate	2	0.100	U	UJ
122-39-4	Diphenylamine	2	0.200	U	
206-44-0	Fluoranthene	2	0.100	U	
86-73-7	Fluorene	2	0.100	U	
118-74-1	Hexachlorobenzene	2	0.100	U	
87-68-3	Hexachlorobutadiene	2	0.100	U	
77-47-4	Hexachlorocyclopentadiene	2	0.100	U	UJ
67-72-1	Hexachloroethane	2	0.100	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.100	U	
78-59-1	Isophorone	2	0.100	U	
91-20-3	Naphthalene	2	0.100	U	
98-95-3	Nitrobenzene	2	0.100	U	
62-75-9	N-Nitrosodimethylamine	2	0.100	U	UJ
621-64-7	N-nitroso-di-n-propylamine	2	0.100	U	
86-30-6	N-Nitrosodiphenylamine	2	0.100	U	
87-86-5	Pentachlorophenol	2	0.100	U	
85-01-8	Phenanthrene	2	0.100	U	
108-95-2	Phenol	2	0.100	U	
129-00-0	Pyrene	2	0.100	U	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP5 (25-27.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-04	File ID:	E70351705.D
Sampled:	11/13/23 10:00	Prepared:	11/21/23 08:41	Analyzed:	11/22/23 13:18
Solids:	81.84	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31385	Sequence:	S3K2243	Calibration:	SK30004
Instrument:	BNA #7				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.00	1.30	65.0	20 - 108	
SURR: Phenol-d6	2.00	1.30	65.0	23 - 114	
SURR: Nitrobenzene-d5	1.00	0.643	64.2	22 - 108	
SURR: 2-Fluorobiphenyl	1.00	0.716	71.4	21 - 113	
SURR: 2,4,6-Tribromophenol	2.00	1.97	98.3	19 - 110	
SURR: Terphenyl-d14	1.00	0.845	84.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	537616	4.754	575781	4.754	
ISTD: Naphthalene-d8	2228966	5.789	2682655	5.795	
ISTD: Acenaphthene-d10	1291071	7.436	1458413	7.441	
ISTD: Phenanthrene-d10	2267541	9.455	2505185	9.46	
ISTD: Chrysene-d12	1614393	14.062	1954702	14.062	
ISTD: Perylene-d12	1758066	17.064	2025318	17.064	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: BNA1024508.D

Sampled: 11/13/23 11:20 Prepared: 11/20/23 08:52 Analyzed: 11/21/23 18:57

Solids: 92.23 Preparation: EPA 3550C Initial/Final: 30.5 g / 1 mL

Batch: BK31284 Sequence: S3K2222 Calibration: SK30028 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.0889	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.178	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.0889	U	
95-50-1	1,2-Dichlorobenzene	2	0.0889	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.0889	U	
541-73-1	1,3-Dichlorobenzene	2	0.0889	U	
106-46-7	1,4-Dichlorobenzene	2	0.0889	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.178	U	UJ
95-95-4	2,4,5-Trichlorophenol	2	0.0889	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.0889	U	
120-83-2	2,4-Dichlorophenol	2	0.0889	U	
105-67-9	2,4-Dimethylphenol	2	0.0889	U	
51-28-5	2,4-Dinitrophenol	2	~~0.178~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.0889	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.0889	U	
91-58-7	2-Chloronaphthalene	2	0.0889	U	
95-57-8	2-Chlorophenol	2	0.0889	U	
91-57-6	2-Methylnaphthalene	2	0.0889	U	
95-48-7	2-Methylphenol	2	0.0889	U	
88-74-4	2-Nitroaniline	2	0.178	U	
88-75-5	2-Nitrophenol	2	0.0889	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.0889	U	
91-94-1	3,3-Dichlorobenzidine	2	0.0889	U	UJ
99-09-2	3-Nitroaniline	2	0.178	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.178~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.0889	U	
59-50-7	4-Chloro-3-methylphenol	2	0.0889	U	
106-47-8	4-Chloroaniline	2	0.0889	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.0889	U	
100-01-6	4-Nitroaniline	2	0.178	U	
100-02-7	4-Nitrophenol	2	0.178	U	UJ
83-32-9	Acenaphthene	2	0.0455	JD	
208-96-8	Acenaphthylene	2	0.0889	U	
98-86-2	Acetophenone	2	0.0889	U	
62-53-3	Aniline	2	0.356	U	
120-12-7	Anthracene	2	0.145	D	
1912-24-9	Atrazine	2	0.0889	U	
100-52-7	Benzaldehyde	2	0.0889	U	
92-87-5	Benzidine	2	0.356	U	UJ
56-55-3	Benzo(a)anthracene	2	0.557	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-05	File ID:	BNA1024508.D
Sampled:	11/13/23 11:20	Prepared:	11/20/23 08:52	Analyzed:	11/21/23 18:57
Solids:	92.23	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31284	Sequence:	S3K2222	Calibration:	SK30028
Instrument:	BNA #1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.680	D	J
205-99-2	Benzo(b)fluoranthene	2	0.844	D	
191-24-2	Benzo(g,h,i)perylene	2	0.525	D	
207-08-9	Benzo(k)fluoranthene	2	0.257	D	
65-85-0	Benzoic acid	2	0.0889	U	UJ
100-51-6	Benzyl alcohol	2	0.0889	U	
85-68-7	Benzyl butyl phthalate	2	0.0889	U	UJ
111-91-1	Bis(2-chloroethoxy)methane	2	0.0889	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.0889	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.0889	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.0889	U	
105-60-2	Caprolactam	2	0.178	U	
86-74-8	Carbazole	2	0.0469	JD	
218-01-9	Chrysene	2	0.550	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.120	D	J
132-64-9	Dibenzofuran	2	0.0889	U	
84-66-2	Diethyl phthalate	2	0.0889	U	
131-11-3	Dimethyl phthalate	2	0.0889	U	
84-74-2	Di-n-butyl phthalate	2	0.0889	U	
117-84-0	Di-n-octyl phthalate	2	0.0889	U	UJ
122-39-4	Diphenylamine	2	0.178	U	
206-44-0	Fluoranthene	2	1.01	D	
86-73-7	Fluorene	2	0.0455	JD	
118-74-1	Hexachlorobenzene	2	0.0889	U	
87-68-3	Hexachlorobutadiene	2	0.0889	U	
77-47-4	Hexachlorocyclopentadiene	2	~~0.0889~~	U	R
67-72-1	Hexachloroethane	2	0.0889	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.610	D	J
78-59-1	Isophorone	2	0.0889	U	
91-20-3	Naphthalene	2	0.0889	U	
98-95-3	Nitrobenzene	2	0.0889	U	
62-75-9	N-Nitrosodimethylamine	2	0.0889	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.0889	U	
86-30-6	N-Nitrosodiphenylamine	2	0.0889	U	
87-86-5	Pentachlorophenol	2	0.0889	U	UJ
85-01-8	Phenanthrene	2	0.574	D	
108-95-2	Phenol	2	0.0889	U	
129-00-0	Pyrene	2	0.950	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-05	File ID:	BNA1024508.D
Sampled:	11/13/23 11:20	Prepared:	11/20/23 08:52	Analyzed:	11/21/23 18:57
Solids:	92.23	Preparation:	EPA 3550C	Initial/Final:	30.5 g / 1 mL
Batch:	BK31284	Sequence:	S3K2222	Calibration:	SK30028
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	1.78	0.818	46.0	20 - 108	
SURR: Phenol-d6	1.78	0.859	48.3	23 - 114	
SURR: Nitrobenzene-d5	0.889	0.472	53.1	22 - 108	
SURR: 2-Fluorobiphenyl	0.889	0.453	51.0	21 - 113	
SURR: 2,4,6-Tribromophenol	1.78	0.980	55.2	19 - 110	
SURR: Terphenyl-d14	0.889	0.506	57.0	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	215764	5.228	196329	5.228	
ISTD: Naphthalene-d8	886519	6.292	884790	6.298	
ISTD: Acenaphthene-d10	595946	8.105	521454	8.105	
ISTD: Phenanthrene-d10	1313297	10.063	1149449	10.064	
ISTD: Chrysene-d12	1235413	14.858	1136051	14.858	
ISTD: Perylene-d12	1442436	17.868	1228150	17.863	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID: BNA1024509.D

Sampled: 11/13/23 11:45 Prepared: 11/20/23 08:52 Analyzed: 11/21/23 19:28

Solids: 77.43 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31284 Sequence: S3K2222 Calibration: SK30028 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.105	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.210	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.105	U	
95-50-1	1,2-Dichlorobenzene	2	0.105	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.105	U	
541-73-1	1,3-Dichlorobenzene	2	0.105	U	
106-46-7	1,4-Dichlorobenzene	2	0.105	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.210	U	UJ
95-95-4	2,4,5-Trichlorophenol	2	0.105	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.105	U	
120-83-2	2,4-Dichlorophenol	2	0.105	U	
105-67-9	2,4-Dimethylphenol	2	0.105	U	UJ
51-28-5	2,4-Dinitrophenol	2	~~0.210~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.105	U	
606-20-2	2,6-Dinitrotoluene	2	0.105	U	
91-58-7	2-Chloronaphthalene	2	0.105	U	
95-57-8	2-Chlorophenol	2	0.105	U	
91-57-6	2-Methylnaphthalene	2	0.198	D	
95-48-7	2-Methylphenol	2	0.105	U	
88-74-4	2-Nitroaniline	2	0.210	U	
88-75-5	2-Nitrophenol	2	0.105	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.105	U	
91-94-1	3,3-Dichlorobenzidine	2	0.105	U	UJ
99-09-2	3-Nitroaniline	2	0.210	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.210~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.105	U	
59-50-7	4-Chloro-3-methylphenol	2	0.105	U	
106-47-8	4-Chloroaniline	2	0.105	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.105	U	
100-01-6	4-Nitroaniline	2	0.210	U	
100-02-7	4-Nitrophenol	2	0.210	U	UJ
83-32-9	Acenaphthene	2	0.0993	JD	
208-96-8	Acenaphthylene	2	0.105	U	
98-86-2	Acetophenone	2	0.105	U	
62-53-3	Aniline	2	0.421	U	
120-12-7	Anthracene	2	0.105	U	
1912-24-9	Atrazine	2	0.105	U	
100-52-7	Benzaldehyde	2	0.105	U	
92-87-5	Benzidine	2	0.421	U	UJ
56-55-3	Benzo(a)anthracene	2	0.0833	JD	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0980

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0980-06 | File ID: BNA1024509.D

Sampled: 11/13/23 11:45 | Prepared: 11/20/23 08:52 | Analyzed: 11/21/23 19:28

Solids: 77.43 | Preparation: EPA 3550C | Initial/Final: 30.7 g / 1 mL

Batch: BK31284 | Sequence: S3K2222 | Calibration: SK30028 | Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.156	D	J
205-99-2	Benzo(b)fluoranthene	2	0.182	D	
191-24-2	Benzo(g,h,i)perylene	2	0.188	D	
207-08-9	Benzo(k)fluoranthene	2	0.0673	JD	
65-85-0	Benzoic acid	2	0.105	U	UJ
100-51-6	Benzyl alcohol	2	0.105	U	
85-68-7	Benzyl butyl phthalate	2	0.105	U	UJ
111-91-1	Bis(2-chloroethoxy)methane	2	0.105	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.105	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.105	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.105	U	
105-60-2	Caprolactam	2	0.210	U	
86-74-8	Carbazole	2	0.105	U	
218-01-9	Chrysene	2	0.0791	JD	
53-70-3	Dibenzo(a,h)anthracene	2	0.0631	JD	J
132-64-9	Dibenzofuran	2	0.105	U	
84-66-2	Diethyl phthalate	2	0.105	U	
131-11-3	Dimethyl phthalate	2	0.105	U	
84-74-2	Di-n-butyl phthalate	2	0.105	U	
117-84-0	Di-n-octyl phthalate	2	0.105	U	UJ
122-39-4	Diphenylamine	2	0.210	U	
206-44-0	Fluoranthene	2	0.127	D	
86-73-7	Fluorene	2	0.105	U	
118-74-1	Hexachlorobenzene	2	0.105	U	
87-68-3	Hexachlorobutadiene	2	0.105	U	
77-47-4	Hexachlorocyclopentadiene	2	0.105	U	R
67-72-1	Hexachloroethane	2	0.105	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.183	D	J
78-59-1	Isophorone	2	0.105	U	
91-20-3	Naphthalene	2	0.105	U	
98-95-3	Nitrobenzene	2	0.105	U	
62-75-9	N-Nitrosodimethylamine	2	0.105	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.105	U	
86-30-6	N-Nitrosodiphenylamine	2	0.105	U	
87-86-5	Pentachlorophenol	2	0.105	U	UJ
85-01-8	Phenanthrene	2	0.118	D	
108-95-2	Phenol	2	0.105	U	
129-00-0	Pyrene	2	0.156	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-06	File ID:	BNA1024509.D
Sampled:	11/13/23 11:45	Prepared:	11/20/23 08:52	Analyzed:	11/21/23 19:28
Solids:	77.43	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31284	Sequence:	S3K2222	Calibration:	SK30028
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.10	1.78	84.6	20 - 108	
SURR: Phenol-d6	2.10	1.95	92.5	23 - 114	
SURR: Nitrobenzene-d5	1.05	0.00		22 - 108	*
SURR: 2-Fluorobiphenyl	1.05	0.658	62.6	21 - 113	
SURR: 2,4,6-Tribromophenol	2.10	2.80	133	19 - 110	*
SURR: Terphenyl-d14	1.05	0.763	72.6	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	239895	5.234	196329	5.228	
ISTD: Naphthalene-d8	1185943	6.303	884790	6.298	
ISTD: Acenaphthene-d10	671929	8.111	521454	8.105	
ISTD: Phenanthrene-d10	1360179	10.069	1149449	10.064	
ISTD: Chrysene-d12	1217093	14.858	1136051	14.858	
ISTD: Perylene-d12	1372833	17.868	1228150	17.863	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID: BNA1024510.D

Sampled: 11/13/23 11:50 Prepared: 11/20/23 08:52 Analyzed: 11/21/23 19:59

Solids: 62.21 Preparation: EPA 3550C Initial/Final: 30.7 g / 1 mL

Batch: BK31284 Sequence: S3K2222 Calibration: SK30028 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.131	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.262	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.131	U	
95-50-1	1,2-Dichlorobenzene	2	0.131	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.131	U	
541-73-1	1,3-Dichlorobenzene	2	0.131	U	
106-46-7	1,4-Dichlorobenzene	2	0.131	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.262	U	UJ
95-95-4	2,4,5-Trichlorophenol	2	0.131	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.131	U	
120-83-2	2,4-Dichlorophenol	2	0.131	U	
105-67-9	2,4-Dimethylphenol	2	0.131	U	
51-28-5	2,4-Dinitrophenol	2	0.262	U	R
121-14-2	2,4-Dinitrotoluene	2	0.131	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.131	U	
91-58-7	2-Chloronaphthalene	2	0.131	U	
95-57-8	2-Chlorophenol	2	0.131	U	
91-57-6	2-Methylnaphthalene	2	0.131	U	
95-48-7	2-Methylphenol	2	0.131	U	
88-74-4	2-Nitroaniline	2	0.262	U	
88-75-5	2-Nitrophenol	2	0.131	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.131	U	
91-94-1	3,3-Dichlorobenzidine	2	0.131	U	UJ
99-09-2	3-Nitroaniline	2	0.262	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	0.262	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.131	U	
59-50-7	4-Chloro-3-methylphenol	2	0.131	U	
106-47-8	4-Chloroaniline	2	0.131	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.131	U	
100-01-6	4-Nitroaniline	2	0.262	U	
100-02-7	4-Nitrophenol	2	0.262	U	UJ
83-32-9	Acenaphthene	2	0.131	U	
208-96-8	Acenaphthylene	2	0.131	U	
98-86-2	Acetophenone	2	0.131	U	
62-53-3	Aniline	2	0.525	U	
120-12-7	Anthracene	2	0.131	U	
1912-24-9	Atrazine	2	0.131	U	
100-52-7	Benzaldehyde	2	0.131	U	
92-87-5	Benzidine	2	0.525	U	UJ
56-55-3	Benzo(a)anthracene	2	0.131	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0980

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0980-07 | File ID: BNA1024510.D

Sampled: 11/13/23 11:50 | Prepared: 11/20/23 08:52 | Analyzed: 11/21/23 19:59

Solids: 62.21 | Preparation: EPA 3550C | Initial/Final: 30.7 g / 1 mL

Batch: BK31284 | Sequence: S3K2222 | Calibration: SK30028 | Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.115	JD	J
205-99-2	Benzo(b)fluoranthene	2	0.126	JD	
191-24-2	Benzo(g,h,i)perylene	2	0.115	JD	
207-08-9	Benzo(k)fluoranthene	2	0.131	U	
65-85-0	Benzoic acid	2	0.131	U	UJ
100-51-6	Benzyl alcohol	2	0.131	U	
85-68-7	Benzyl butyl phthalate	2	0.131	U	UJ
111-91-1	Bis(2-chloroethoxy)methane	2	0.131	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.131	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.131	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.131	U	
105-60-2	Caprolactam	2	0.262	U	
86-74-8	Carbazole	2	0.131	U	
218-01-9	Chrysene	2	0.131	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.131	U	UJ
132-64-9	Dibenzofuran	2	0.131	U	
84-66-2	Diethyl phthalate	2	0.131	U	
131-11-3	Dimethyl phthalate	2	0.131	U	
84-74-2	Di-n-butyl phthalate	2	0.131	U	
117-84-0	Di-n-octyl phthalate	2	0.131	U	UJ
122-39-4	Diphenylamine	2	0.262	U	
206-44-0	Fluoranthene	2	0.0942	JD	
86-73-7	Fluorene	2	0.131	U	
118-74-1	Hexachlorobenzene	2	0.131	U	
87-68-3	Hexachlorobutadiene	2	0.131	U	
77-47-4	Hexachlorocyclopentadiene	2	~~0.131~~	U	R
67-72-1	Hexachloroethane	2	0.131	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.142	D	J
78-59-1	Isophorone	2	0.131	U	
91-20-3	Naphthalene	2	0.131	U	
98-95-3	Nitrobenzene	2	0.131	U	
62-75-9	N-Nitrosodimethylamine	2	0.131	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.131	U	
86-30-6	N-Nitrosodiphenylamine	2	0.131	U	
87-86-5	Pentachlorophenol	2	0.131	U	UJ
85-01-8	Phenanthrene	2	0.131	U	
108-95-2	Phenol	2	0.131	U	
129-00-0	Pyrene	2	0.111	JD	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-07	File ID:	BNA1024510.D
Sampled:	11/13/23 11:50	Prepared:	11/20/23 08:52	Analyzed:	11/21/23 19:59
Solids:	62.21	Preparation:	EPA 3550C	Initial/Final:	30.7 g / 1 mL
Batch:	BK31284	Sequence:	S3K2222	Calibration:	SK30028
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.62	2.31	88.2	20 - 108	
SURR: Phenol-d6	2.62	2.32	88.5	23 - 114	
SURR: Nitrobenzene-d5	1.31	1.28	98.1	22 - 108	
SURR: 2-Fluorobiphenyl	1.31	0.724	55.3	21 - 113	
SURR: 2,4,6-Tribromophenol	2.62	3.12	119	19 - 110	*
SURR: Terphenyl-d14	1.31	0.778	59.4	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	234144	5.234	196329	5.228	
ISTD: Naphthalene-d8	962817	6.298	884790	6.298	
ISTD: Acenaphthene-d10	648123	8.105	521454	8.105	
ISTD: Phenanthrene-d10	1329793	10.069	1149449	10.064	
ISTD: Chrysene-d12	1214027	14.858	1136051	14.858	
ISTD: Perylene-d12	1336329	17.863	1228150	17.863	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID: BNA1024511.D

Sampled: 11/13/23 12:00 Prepared: 11/20/23 08:52 Analyzed: 11/21/23 20:30

Solids: 68.00 Preparation: EPA 3550C Initial/Final: 30.6 g / 1 mL

Batch: BK31284 Sequence: S3K2222 Calibration: SK30028 Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
92-52-4	1,1-Biphenyl	2	0.120	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	2	0.240	U	
120-82-1	1,2,4-Trichlorobenzene	2	0.120	U	
95-50-1	1,2-Dichlorobenzene	2	0.120	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	2	0.120	U	
541-73-1	1,3-Dichlorobenzene	2	0.120	U	
106-46-7	1,4-Dichlorobenzene	2	0.120	U	
58-90-2	2,3,4,6-Tetrachlorophenol	2	0.240	U	UJ
95-95-4	2,4,5-Trichlorophenol	2	0.120	U	UJ
88-06-2	2,4,6-Trichlorophenol	2	0.120	U	
120-83-2	2,4-Dichlorophenol	2	0.120	U	
105-67-9	2,4-Dimethylphenol	2	0.120	U	
51-28-5	2,4-Dinitrophenol	2	~~0.240~~	U	R
121-14-2	2,4-Dinitrotoluene	2	0.120	U	UJ
606-20-2	2,6-Dinitrotoluene	2	0.120	U	
91-58-7	2-Chloronaphthalene	2	0.120	U	
95-57-8	2-Chlorophenol	2	0.120	U	
91-57-6	2-Methylnaphthalene	2	0.120	U	
95-48-7	2-Methylphenol	2	0.120	U	
88-74-4	2-Nitroaniline	2	0.240	U	
88-75-5	2-Nitrophenol	2	0.120	U	UJ
65794-96-9	3- & 4-Methylphenols	2	0.120	U	
91-94-1	3,3-Dichlorobenzidine	2	0.120	U	UJ
99-09-2	3-Nitroaniline	2	0.240	U	
534-52-1	4,6-Dinitro-2-methylphenol	2	~~0.240~~	U	R
101-55-3	4-Bromophenyl phenyl ether	2	0.120	U	
59-50-7	4-Chloro-3-methylphenol	2	0.120	U	
106-47-8	4-Chloroaniline	2	0.120	U	
7005-72-3	4-Chlorophenyl phenyl ether	2	0.120	U	
100-01-6	4-Nitroaniline	2	0.240	U	
100-02-7	4-Nitrophenol	2	0.240	U	UJ
83-32-9	Acenaphthene	2	0.118	JD	
208-96-8	Acenaphthylene	2	0.120	U	
98-86-2	Acetophenone	2	0.120	U	
62-53-3	Aniline	2	0.482	U	
120-12-7	Anthracene	2	0.287	D	
1912-24-9	Atrazine	2	0.120	U	
100-52-7	Benzaldehyde	2	0.120	U	
92-87-5	Benzidine	2	0.482	U	UJ
56-55-3	Benzo(a)anthracene	2	0.530	D	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0980

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0980-08 | File ID: BNA1024511.D

Sampled: 11/13/23 12:00 | Prepared: 11/20/23 08:52 | Analyzed: 11/21/23 20:30

Solids: 68.00 | Preparation: EPA 3550C | Initial/Final: 30.6 g / 1 mL

Batch: BK31284 | Sequence: S3K2222 | Calibration: SK30028 | Instrument: BNA #1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q	
50-32-8	Benzo(a)pyrene	2	0.504	D	J
205-99-2	Benzo(b)fluoranthene	2	0.532	D	
191-24-2	Benzo(g,h,i)perylene	2	0.255	D	
207-08-9	Benzo(k)fluoranthene	2	0.194	D	
65-85-0	Benzoic acid	2	0.120	U	UJ
100-51-6	Benzyl alcohol	2	0.120	U	
85-68-7	Benzyl butyl phthalate	2	0.120	U	UJ
111-91-1	Bis(2-chloroethoxy)methane	2	0.120	U	
111-44-4	Bis(2-chloroethyl)ether	2	0.120	U	
108-60-1	Bis(2-chloroisopropyl)ether	2	0.120	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	0.120	U	
105-60-2	Caprolactam	2	0.240	U	
86-74-8	Carbazole	2	0.0875	JD	
218-01-9	Chrysene	2	0.479	D	
53-70-3	Dibenzo(a,h)anthracene	2	0.0875	JD	J
132-64-9	Dibenzofuran	2	0.120	U	
84-66-2	Diethyl phthalate	2	0.120	U	
131-11-3	Dimethyl phthalate	2	0.120	U	
84-74-2	Di-n-butyl phthalate	2	0.120	U	
117-84-0	Di-n-octyl phthalate	2	0.120	U	UJ
122-39-4	Diphenylamine	2	0.240	U	
206-44-0	Fluoranthene	2	1.02	D	
86-73-7	Fluorene	2	0.120	D	
118-74-1	Hexachlorobenzene	2	0.120	U	
87-68-3	Hexachlorobutadiene	2	0.120	U	
77-47-4	Hexachlorocyclopentadiene	2	0.120	U	R
67-72-1	Hexachloroethane	2	0.120	U	
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.309	D	J
78-59-1	Isophorone	2	0.120	U	
91-20-3	Naphthalene	2	0.120	U	
98-95-3	Nitrobenzene	2	0.120	U	
62-75-9	N-Nitrosodimethylamine	2	0.120	U	
621-64-7	N-nitroso-di-n-propylamine	2	0.120	U	
86-30-6	N-Nitrosodiphenylamine	2	0.120	U	
87-86-5	Pentachlorophenol	2	0.120	U	UJ
85-01-8	Phenanthrene	2	0.885	D	
108-95-2	Phenol	2	0.120	U	
129-00-0	Pyrene	2	0.932	D	

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23SP6 (22.5-25 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-08	File ID:	BNA1024511.D
Sampled:	11/13/23 12:00	Prepared:	11/20/23 08:52	Analyzed:	11/21/23 20:30
Solids:	68.00	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 1 mL
Batch:	BK31284	Sequence:	S3K2222	Calibration:	SK30028
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	2.40	2.05	85.4	20 - 108	
SURR: Phenol-d6	2.40	1.96	81.5	23 - 114	
SURR: Nitrobenzene-d5	1.20	0.953	79.4	22 - 108	
SURR: 2-Fluorobiphenyl	1.20	0.901	75.0	21 - 113	
SURR: 2,4,6-Tribromophenol	2.40	2.68	112	19 - 110	*
SURR: Terphenyl-d14	1.20	1.00	83.3	24 - 116	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	205283	5.234	196329	5.228	
ISTD: Naphthalene-d8	862230	6.292	884790	6.298	
ISTD: Acenaphthene-d10	560589	8.105	521454	8.105	
ISTD: Phenanthrene-d10	1195985	10.064	1149449	10.064	
ISTD: Chrysene-d12	1199156	14.858	1136051	14.858	
ISTD: Perylene-d12	1280624	17.868	1228150	17.863	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: SVOA

METHOD: EPA 8270D SIM

No data validation qualifiers were added

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DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP5 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-01	File ID:	E800073603.D
Sampled:	11/13/23 09:15	Prepared:	11/16/23 08:36	Analyzed:	11/16/23 23:24
Solids:	86.66	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.324	65.4	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	184118	9.216	182454	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02	File ID:	E800073604.D
Sampled:	11/13/23 09:30	Prepared:	11/16/23 08:36	Analyzed:	11/16/23 23:41
Solids:	84.14	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.303	61.1	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	210376	9.216	182454	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03	File ID:	E800073605.D
Sampled:	11/13/23 09:50	Prepared:	11/16/23 08:36	Analyzed:	11/16/23 23:59
Solids:	68.87	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.244	49.4	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	195356	9.216	182454	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP5 (25-27.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-04	File ID:	E800073606.D
Sampled:	11/13/23 10:00	Prepared:	11/16/23 08:36	Analyzed:	11/17/23 00:16
Solids:	81.84	Preparation:	EPA 3550C	Initial/Final:	10.4 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0192	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.481	0.313	65.0	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	181541	9.216	182454	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP6 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-05	File ID:	E800073608.D
Sampled:	11/13/23 11:20	Prepared:	11/16/23 08:36	Analyzed:	11/17/23 00:51
Solids:	92.23	Preparation:	EPA 3550C	Initial/Final:	10.3 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0194	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.485	0.257	53.0	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	189068	9.215	203771	9.223	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP6 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-06	File ID:	E800073609.D
Sampled:	11/13/23 11:45	Prepared:	11/16/23 08:36	Analyzed:	11/17/23 01:08
Solids:	77.43	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.324	65.4	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	189159	9.216	203771	9.223	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP6 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-07	File ID:	E800073610.D
Sampled:	11/13/23 11:50	Prepared:	11/16/23 08:36	Analyzed:	11/17/23 01:26
Solids:	62.21	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.325	65.7	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	182397	9.216	203771	9.223	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23SP6 (22.5-25 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-08	File ID:	E800073611.D
Sampled:	11/13/23 12:00	Prepared:	11/16/23 08:36	Analyzed:	11/17/23 01:43
Solids:	68.00	Preparation:	EPA 3550C	Initial/Final:	10.1 g / 10 mL
Batch:	BK31066	Sequence:	S3K1717	Calibration:	SJ30037
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg)	Q
123-91-1	1,4-Dioxane	1	0.0198	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg)	CONC (mg/kg)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	0.495	0.290	58.7	39 - 127.5	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	175977	9.216	203771	9.223	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
CLASS: PFAS
METHOD: EPA 1633 Draft 3

DATA PACKAGE COVER PAGE

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08
PFAS Field Blank	23K0980-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-01	File ID:	QQQ32476.d
Sampled:	11/13/23 09:15	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 12:51
Solids:	86.66	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.203	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.0765	J	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.229	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.210	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.229	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.911		
375-95-1	Perfluorononanoic acid (PFNA)	1	0.229	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.229	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.229	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.229	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.229	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.229	U	
2355-31-9	N-MeFOSAA	1	0.229	U	
2991-50-6	N-EtFOSAA	1	0.229	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.459	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.229	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.229	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.221	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.872	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.881	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.918	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.408	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.459	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.459	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.459	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.216	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.860	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.918	U	
763051-92-9	11CL-PF3OUdS	1	0.867	U	UJ
756426-58-1	9CL-PF3ONS	1	0.858	U	UJ
919005-14-4	ADONA	1	0.867	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.223	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.220	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.15	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.74	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.74	U	
24448-09-7	N-MeFOSE	1	2.29	U	
31506-32-8	N-MeFOSA	1	0.229	U	
1691-99-2	N-EtFOSE	1	2.29	U	
4151-50-2	N-EtFOSA	1	0.229	U	UJ

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: QQQ32476.d

Sampled: 11/13/23 09:15 Prepared: 11/20/23 12:52 Analyzed: 11/22/23 12:51

Solids: 86.66 Preparation: EPA 1633 Prep Initial/Final: 5.03 g / 5 mL

Batch: BK31292 Sequence: S3K2254 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.23	2.39	107	25 - 150	
M5PFHxA	2.39	2.92	122	25 - 150	
M4PFHpA	2.39	3.12	131	25 - 150	
M3PFHxS	2.27	3.01	133	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.39	2.51	105	25 - 150	
M6PFDA	1.19	1.40	117	25 - 150	
M7PFUdA	1.19	1.32	110	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.19	1.11	92.9	25 - 150	
M2PFTeDA	1.19	1.02	85.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.58	11.4	119	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.29	2.51	110	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.78	5.91	124	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.39	1.94	81.2	10 - 150	
d3-N-MeFOSAA	4.78	4.05	84.8	25 - 150	
d5-N-EtFOSAA	4.78	4.91	103	25 - 150	
M2-6:2 FTS	4.54	4.69	103	25 - 200	
M2-8:2 FTS	4.59	6.78	148	25 - 200	
M9PFNA	1.19	1.31	110	25 - 150	
M2-4:2 FTS	4.48	3.38	75.3	25 - 150	
d-N-MeFOSA	2.39	0.963	40.2	25 - 150	
d-N-EtFOSA	2.39	0.846	35.4	25 - 150	
M3HFPO-DA	9.58	13.1	137	25 - 150	
d9-N-EtFOSE	23.9	9.86	41.2	25 - 150	
d7-N-MeFOSE	23.9	12.6	52.5	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	29388.64	1.170383	33810.43	1.197917	
MPFDA	12985.75	8.56905	14841.97	8.6432	
MPFHxA	41774.39	5.93725	51589.73	5.9742	
MPFHxS	4002.22	6.823717	4143.699	6.88005	
MPFNA	20372.88	8.022433	21703.87	8.096684	
MPFOA	42737.52	7.40005	48962.38	7.474216	
MPFOS	9696.966	8.048866	10697.15	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4848.762	8.0128	5384.402	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33278.11	7.399667	39500.07	7.473834	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	112334.2	4.375533	138104.3	4.393917	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	146599.2	1.177267	175055.2	1.195633	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	18325.14	9.484867	31544.68	9.54995	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-01	File ID:	QQQ32476.d
Sampled:	11/13/23 09:15	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 12:51
Solids:	86.66	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3990.944	8.048333	4380.819	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12281.64	9.0546	15270.08	9.082583	
M7PFUdA-EIS	22926.26	9.05985	36404.1	9.1247	
M6PFDA-EIS	16328.16	8.577933	19887.72	8.6428	
M5PFHxA-EIS	65244.12	5.93605	78454.95	5.963767	
M4PFHpA-EIS	8884.931	6.7226	11123.41	6.779183	
M3PFHxS-EIS	11698.3	6.815017	12478.5	6.880533	
M3PFBS-EIS	17404.95	5.141067	20833.24	5.159517	
M3-HFPO-DA-EIS	45268.54	6.216583	55948.36	6.262866	
M2PFTeDA-EIS	9560.847	10.1842	14843.69	10.25788	
M2-8-2FTS-EIS	57832.46	8.5308	32125.52	8.604934	
M2-6-2FTS-EIS	27334.81	7.3337	21364.99	7.408183	
M2-4-2FTS-EIS	29355.26	5.86935	34819.02	5.8973	
d9-NEtFOSE-EIS	2278.989	10.15965	4813.042	10.18728	
d7-NMeFOSE-EIS	5415.677	9.883034	11044.12	9.910717	
d5-NEtFOSA-EIS	654.4547	10.20827	1643.078	10.22668	
d5-N-EtFOSAA-EIS	25414.86	9.0308	25938.37	9.0959	
d3-NMeFOSA-EIS	1086.04	9.923616	2283.928	9.943117	
d3-N-MeFOSAA-EIS	28875.83	8.779233	31976.04	8.8547	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02	File ID:	QQQ32477.d
Sampled:	11/13/23 09:30	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 13:07
Solids:	84.14	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.207	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.0928	J	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.234	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.214	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.234	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.218	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.234	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.234	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.234	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.234	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.234	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.234	U	
2355-31-9	N-MeFOSAA	1	0.234	U	
2991-50-6	N-EtFOSAA	1	0.234	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.468	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.234	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.234	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.226	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.889	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.898	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.936	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.416	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.468	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.468	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.468	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.220	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.877	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.936	U	
763051-92-9	11CL-PF3OUdS	1	0.884	U	UJ
756426-58-1	9CL-PF3ONS	1	0.875	U	UJ
919005-14-4	ADONA	1	0.884	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.227	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.225	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.17	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.85	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.85	U	
24448-09-7	N-MeFOSE	1	2.34	U	
31506-32-8	N-MeFOSA	1	0.234	U	
1691-99-2	N-EtFOSE	1	2.34	U	
4151-50-2	N-EtFOSA	1	0.234	U	UJ

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02	File ID:	QQQ32477.d
Sampled:	11/13/23 09:30	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 13:07
Solids:	84.14	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.27	2.26	99.6	25 - 150	
M5PFHxA	2.44	2.71	111	25 - 150	
M4PFHpA	2.44	2.89	118	25 - 150	
M3PFHxS	2.31	2.87	124	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.44	2.49	102	25 - 150	
M6PFDA	1.22	1.42	117	25 - 150	
M7PFUdA	1.22	1.42	117	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.22	1.26	104	25 - 150	
M2PFTeDA	1.22	0.977	80.3	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.77	11.4	117	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.33	2.39	102	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.87	5.72	117	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.44	1.99	81.6	10 - 150	
d3-N-MeFOSAA	4.87	4.02	82.5	25 - 150	
d5-N-EtFOSAA	4.87	4.95	102	25 - 150	
M2-6:2 FTS	4.63	2.80	60.4	25 - 200	
M2-8:2 FTS	4.68	5.03	107	25 - 200	
M9PFNA	1.22	1.24	102	25 - 150	
M2-4:2 FTS	4.57	1.46	31.9	25 - 150	
d-N-MeFOSA	2.44	1.17	48.0	25 - 150	
d-N-EtFOSA	2.44	1.18	48.4	25 - 150	
M3HFPO-DA	9.77	13.1	134	25 - 150	
d9-N-EtFOSE	24.4	12.5	51.3	25 - 150	
d7-N-MeFOSE	24.4	16.3	66.9	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	29586.19	1.2071	33810.43	1.197917	
MPFDA	14186.32	8.550517	14841.97	8.6432	
MPFHxA	43464.75	5.918766	51589.73	5.9742	
MPFHxS	4065.795	6.795983	4143.699	6.88005	
MPFNA	20566.4	7.9946	21703.87	8.096684	
MPFOA	42840.31	7.3815	48962.38	7.474216	
MPFOS	9477.242	8.0303	10697.15	8.132383	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4623.279	7.99425	5384.402	8.096316	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	32506.78	7.37185	39500.07	7.473834	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	110763	4.393917	138104.3	4.393917	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	144406.5	1.2048	175055.2	1.195633	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	22320.35	9.46635	31544.68	9.54995	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02	File ID:	QQQ32477.d
Sampled:	11/13/23 09:30	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 13:07
Solids:	84.14	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3647.113	8.029767	4380.819	8.13185	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12060.11	9.036067	15270.08	9.082583	
M7PFUdA-EIS	26537.29	9.031917	36404.1	9.1247	
M6PFDA-EIS	17749.95	8.550134	19887.72	8.6428	
M5PFHxA-EIS	61738.37	5.917583	78454.95	5.963767	
M4PFHpA-EIS	8380.973	6.69485	11123.41	6.779183	
M3PFHxS-EIS	11085.58	6.796533	12478.5	6.880533	
M3PFBS-EIS	16389.09	5.141067	20833.24	5.159517	
M3-HFPO-DA-EIS	46063.64	6.1979	55948.36	6.262866	
M2PFTeDA-EIS	9844.436	10.16578	14843.69	10.25788	
M2-8-2FTS-EIS	42687.81	8.512267	32125.52	8.604934	
M2-6-2FTS-EIS	16220.83	7.31465	21364.99	7.408183	
M2-4-2FTS-EIS	12630.51	5.85085	34819.02	5.8973	
d9-NEtFOSE-EIS	2763.064	10.1407	4813.042	10.18728	
d7-NMeFOSE-EIS	6724.041	9.864583	11044.12	9.910717	
d5-NEtFOSA-EIS	869.6053	10.18985	1643.078	10.22668	
d5-N-EtFOSAA-EIS	24578.63	9.012283	25938.37	9.0959	
d3-NMeFOSA-EIS	1270.35	9.905167	2283.928	9.943117	
d3-N-MeFOSAA-EIS	27481.07	8.7607	31976.04	8.8547	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03	File ID:	QQQ32480.d
Sampled:	11/13/23 09:50	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 13:55
Solids:	68.87	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.254	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.287	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.287	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.263	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.287	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.267	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.287	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.287	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.287	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.287	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.287	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.287	U	
2355-31-9	N-MeFOSAA	1	0.287	U	
2991-50-6	N-EtFOSAA	1	0.287	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.574	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.287	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.287	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.277	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.09	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.10	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.15	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.511	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.574	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.574	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.574	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.270	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.08	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.15	U	
763051-92-9	11CL-PF3OUdS	1	1.08	U	UJ
756426-58-1	9CL-PF3ONS	1	1.07	U	UJ
919005-14-4	ADONA	1	1.08	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.278	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.275	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.43	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.17	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.17	U	
24448-09-7	N-MeFOSE	1	2.87	U	
31506-32-8	N-MeFOSA	1	0.287	U	
1691-99-2	N-EtFOSE	1	2.87	U	
4151-50-2	N-EtFOSA	1	0.287	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03	File ID:	QQQ32480.d
Sampled:	11/13/23 09:50	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 13:55
Solids:	68.87	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.78	3.34	120	25 - 150	
M5PFHxA	2.99	4.00	134	25 - 150	
M4PFHpA	2.99	3.96	132	25 - 150	
M3PFHxS	2.83	3.90	137	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.99	3.30	110	25 - 150	
M6PFDA	1.49	2.13	143	25 - 150	
M7PFUdA	1.49	1.90	127	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.49	1.74	117	25 - 150	
M2PFTeDA	1.49	1.48	98.9	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.0	15.6	130	25 - 150	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.86	3.33	116	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.98	8.14	136	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.99	2.76	92.3	10 - 150	
d3-N-MeFOSAA	5.98	5.11	85.5	25 - 150	
d5-N-EtFOSAA	5.98	6.18	103	25 - 150	
M2-6:2 FTS	5.68	4.74	83.5	25 - 200	
M2-8:2 FTS	5.74	6.30	110	25 - 200	
M9PFNA	1.49	1.92	129	25 - 150	
M2-4:2 FTS	5.61	2.96	52.8	25 - 150	
d-N-MeFOSA	2.99	1.93	64.7	25 - 150	
d-N-EtFOSA	2.99	1.81	60.6	25 - 150	
M3HFPO-DA	12.0	17.2	143	25 - 150	
d9-N-EtFOSE	29.9	18.7	62.4	25 - 150	
d7-N-MeFOSE	29.9	24.4	81.7	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	28459.14	1.197917	31665.78	1.2071	
MPFDA	13144.77	8.615383	15320.77	8.671	
MPFHxA	41255.12	5.955717	46962.84	5.96495	
MPFHxS	3806.839	6.843033	3801.397	6.889317	
MPFNA	18734.09	8.05955	21420.79	8.115233	
MPFOA	41861.71	7.437133	43996.5	7.483483	
MPFOS	9002.589	8.095266	10942.46	8.150933	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5296.66	8.0592	5877.14	8.114883	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34297.53	7.43675	37131.31	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	122058.8	4.4031	131048.9	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	155096	1.195633	169689.2	1.2048	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	23352.48	9.522217	29595.51	9.56845	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03	File ID:	QQQ32480.d
Sampled:	11/13/23 09:50	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 13:55
Solids:	68.87	Preparation:	EPA 1633 Prep	Initial/Final:	5.06 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3934.2	8.094733	4168.529	8.1504	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12958.61	9.101267	16794.67	9.156934	
M7PFUdA-EIS	26745.29	9.096867	29625.15	9.14325	
M6PFDA-EIS	20158.87	8.615	21571.7	8.6706	
M5PFHxA-EIS	70491.98	5.954533	74517.98	5.963767	
M4PFHpA-EIS	8893.553	6.7515	9390.186	6.788417	
M3PFHxS-EIS	11465.18	6.843517	11527.12	6.889783	
M3PFBS-EIS	18459.2	5.159517	20570.1	5.1503	
M3-HFPO-DA-EIS	46870.67	6.235083	53748.08	6.2536	
M2PFTeDA-EIS	11227.66	10.21183	16356.45	10.23025	
M2-8-2FTS-EIS	40852.42	8.577133	37290.25	8.632733	
M2-6-2FTS-EIS	21009.98	7.371083	17313.09	7.41745	
M2-4-2FTS-EIS	19574.49	5.88805	30771.55	5.8973	
d9-NEtFOSE-EIS	3199.302	10.18728	4797.038	10.2057	
d7-NMeFOSE-EIS	7788.759	9.91995	10325.32	9.948167	
d5-NEtFOSA-EIS	1034.256	10.2359	1428.829	10.24512	
d5-N-EtFOSAA-EIS	23758.63	9.068117	29015.57	9.123734	
d3-NMeFOSA-EIS	1622.691	9.952333	2217.796	9.979983	
d3-N-MeFOSAA-EIS	27040.92	8.82605	33311.9	8.88255	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (25-27.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-04	File ID:	QQQ32481.d
Sampled:	11/13/23 10:00	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 14:11
Solids:	81.84	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.215	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.243	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.243	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.222	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.243	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.226	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.243	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.243	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.243	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.243	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.243	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.243	U	
2355-31-9	N-MeFOSAA	1	0.243	U	
2991-50-6	N-EtFOSAA	1	0.243	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.486	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.243	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.243	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.234	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.923	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.933	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.972 UJ ~~0.267~~	J	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.432	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.486	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.486	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.486	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.228	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.911	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.972	U	
763051-92-9	11CL-PF3OUdS	1	0.918	U	UJ
756426-58-1	9CL-PF3ONS	1	0.909	U	UJ
919005-14-4	ADONA	1	0.918	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.236	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.233	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.21	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.07	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.07	U	
24448-09-7	N-MeFOSE	1	2.43	U	
31506-32-8	N-MeFOSA	1	0.243	U	
1691-99-2	N-EtFOSE	1	2.43	U	
4151-50-2	N-EtFOSA	1	0.243	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (25-27.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-04	File ID:	QQQ32481.d
Sampled:	11/13/23 10:00	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 14:11
Solids:	81.84	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.36	1.63	69.3	25 - 150	
M5PFHxA	2.53	2.21	87.1	25 - 150	
M4PFHpA	2.53	2.67	105	25 - 150	
M3PFHxS	2.40	2.18	90.7	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.53	2.13	84.0	25 - 150	
M6PFDA	1.26	1.22	96.2	25 - 150	
M7PFUdA	1.26	1.22	96.7	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.26	1.06	83.8	25 - 150	
M2PFTeDA	1.26	0.885	70.1	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.1	0.241	2.37	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.42	1.94	80.3	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.06	0.408	8.07	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.53	1.49	58.9	10 - 150	
d3-N-MeFOSAA	5.06	2.68	53.0	25 - 150	
d5-N-EtFOSAA	5.06	3.26	64.4	25 - 150	
M2-6:2 FTS	4.81	2.16	44.8	25 - 200	
M2-8:2 FTS	4.86	2.36	48.6	25 - 200	
M9PFNA	1.26	1.13	89.7	25 - 150	
M2-4:2 FTS	4.75	2.46	51.7	25 - 150	
d-N-MeFOSA	2.53	1.18	46.7	25 - 150	
d-N-EtFOSA	2.53	1.11	43.6	25 - 150	
M3HFPO-DA	10.1	10.2	100	25 - 150	
d9-N-EtFOSE	25.3	8.49	33.5	25 - 150	
d7-N-MeFOSE	25.3	12.5	49.3	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	26163.7	1.188733	31665.78	1.2071	
MPFDA	12826.76	8.6432	15320.77	8.671	
MPFHxA	41121.06	5.946483	46962.84	5.96495	
MPFHxS	3693.51	6.8523	3801.397	6.889317	
MPFNA	16511.53	8.078116	21420.79	8.115233	
MPFOA	38177.13	7.4464	43996.5	7.483483	
MPFOS	9068.016	8.113816	10942.46	8.150933	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3258.355	8.077766	5877.14	8.114883	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	23813.11	7.446017	37131.31	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	7210.923	4.375533	131048.9	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2598.753	1.195633	169689.2	1.2048	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	16339.63	9.56845	29595.51	9.56845	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP5 (25-27.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-04	File ID:	QQQ32481.d
Sampled:	11/13/23 10:00	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 14:11
Solids:	81.84	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2733.092	8.113283	4168.529	8.1504	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8329.767	9.138383	16794.67	9.156934	
M7PFUdA-EIS	19822.15	9.133984	29625.15	9.14325	
M6PFDA-EIS	13238.31	8.6428	21571.7	8.6706	
M5PFHxA-EIS	45766.17	5.9453	74517.98	5.963767	
M4PFHpA-EIS	7054.75	6.7515	9390.186	6.788417	
M3PFHxS-EIS	7365.286	6.852767	11527.12	6.889783	
M3PFBS-EIS	10368.1	5.141067	20570.1	5.1503	
M3-HFPO-DA-EIS	32650.95	6.235083	53748.08	6.2536	
M2PFTeDA-EIS	7764.784	10.25788	16356.45	10.23025	
M2-8-2FTS-EIS	17529.43	8.595667	37290.25	8.632733	
M2-6-2FTS-EIS	10946.53	7.380367	17313.09	7.41745	
M2-4-2FTS-EIS	18614.3	5.878817	30771.55	5.8973	
d9-NEtFOSE-EIS	1725.109	10.23333	4797.038	10.2057	
d7-NMeFOSE-EIS	4746.088	9.9666	10325.32	9.948167	
d5-NEtFOSA-EIS	732.9823	10.28195	1428.829	10.24512	
d5-N-EtFOSAA-EIS	14894.49	9.105166	29015.57	9.123734	
d3-NMeFOSA-EIS	1184.29	9.99845	2217.796	9.979983	
d3-N-MeFOSAA-EIS	16880.68	8.8547	33311.9	8.88255	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: QQQ32482.d

Sampled: 11/13/23 11:20 Prepared: 11/20/23 12:52 Analyzed: 11/22/23 14:27

Solids: 92.23 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK31292 Sequence: S3K2254 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.192	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.216	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.216	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.198	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.216	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.201	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.216	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.216	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.216	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.216	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.216	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.216	U	
2355-31-9	N-MeFOSAA	1	0.216	U	
2991-50-6	N-EtFOSAA	1	0.216	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.433	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.216	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.216	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.209	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.822	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.831	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	0.866	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.385	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.433	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.433	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.433	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.203	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.812	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	0.866	U	
763051-92-9	11CL-PF3OUdS	1	0.818	U	UJ
756426-58-1	9CL-PF3ONS	1	0.809	U	UJ
919005-14-4	ADONA	1	0.818	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.210	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.208	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.08	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	5.41	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	5.41	U	
24448-09-7	N-MeFOSE	1	2.16	U	
31506-32-8	N-MeFOSA	1	0.216	U	
1691-99-2	N-EtFOSE	1	2.16	U	
4151-50-2	N-EtFOSA	1	0.216	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: QQQ32482.d

Sampled: 11/13/23 11:20 Prepared: 11/20/23 12:52 Analyzed: 11/22/23 14:27

Solids: 92.23 Preparation: EPA 1633 Prep Initial/Final: 5.01 g / 5 mL

Batch: BK31292 Sequence: S3K2254 Calibration: SJ30009 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.10	1.45	69.2	25 - 150	
M5PFHxA	2.26	2.08	92.4	25 - 150	
M4PFHpA	2.26	2.68	119	25 - 150	
M3PFHxS	2.14	2.71	127	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.26	2.42	107	25 - 150	
M6PFDA	1.13	1.33	118	25 - 150	
M7PFUdA	1.13	1.28	114	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.13	1.21	108	25 - 150	
M2PFTeDA	1.13	0.981	87.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.04	0.221	2.44	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.16	2.26	105	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.51	0.329	7.31	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.26	1.76	78.1	10 - 150	
d3-N-MeFOSAA	4.51	3.38	75.1	25 - 150	
d5-N-EtFOSAA	4.51	4.22	93.7	25 - 150	
M2-6:2 FTS	4.28	3.44	80.4	25 - 200	
M2-8:2 FTS	4.33	5.04	116	25 - 200	
M9PFNA	1.13	1.42	126	25 - 150	
M2-4:2 FTS	4.23	2.52	59.6	25 - 150	
d-N-MeFOSA	2.26	1.06	47.2	25 - 150	
d-N-EtFOSA	2.26	1.01	44.8	25 - 150	
M3HFPO-DA	9.04	8.70	96.3	25 - 150	
d9-N-EtFOSE	22.6	10.0	44.5	25 - 150	
d7-N-MeFOSE	22.6	14.1	62.3	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	28247.81	1.2071	31665.78	1.2071	
MPFDA	14150.22	8.587584	15320.77	8.671	
MPFHxA	45069.81	5.946483	46962.84	5.96495	
MPFHxS	4024.817	6.83295	3801.397	6.889317	
MPFNA	18307.06	8.031716	21420.79	8.115233	
MPFOA	41995.95	7.409317	43996.5	7.483483	
MPFOS	10075.39	8.067416	10942.46	8.150933	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5093.293	8.031366	5877.14	8.114883	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33382.86	7.408933	37131.31	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	7143.33	4.393917	131048.9	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2890.57	1.2048	169689.2	1.2048	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	23178.32	9.494117	29595.51	9.56845	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-05	File ID:	QQQ32482.d
Sampled:	11/13/23 11:20	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 14:27
Solids:	92.23	Preparation:	EPA 1633 Prep	Initial/Final:	5.01 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3961.647	8.066883	4168.529	8.1504	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12268.54	9.082583	16794.67	9.156934	
M7PFUdA-EIS	25746.73	9.069117	29625.15	9.14325	
M6PFDA-EIS	17877.21	8.5872	21571.7	8.6706	
M5PFHxA-EIS	53164.45	5.9453	74517.98	5.963767	
M4PFHpA-EIS	8706.295	6.731833	9390.186	6.788417	
M3PFHxS-EIS	11219.53	6.8335	11527.12	6.889783	
M3PFBS-EIS	11283.57	5.1503	20570.1	5.1503	
M3-HFPO-DA-EIS	34280.38	6.225833	53748.08	6.2536	
M2PFTeDA-EIS	10653.4	10.175	16356.45	10.23025	
M2-8-2FTS-EIS	45794.66	8.549334	37290.25	8.632733	
M2-6-2FTS-EIS	21379.8	7.35225	17313.09	7.41745	
M2-4-2FTS-EIS	23368.02	5.86935	30771.55	5.8973	
d9-NEtFOSE-EIS	2555.841	10.15965	4797.038	10.2057	
d7-NMeFOSE-EIS	6661.985	9.892266	10325.32	9.948167	
d5-NEtFOSA-EIS	849.7535	10.19907	1428.829	10.24512	
d5-N-EtFOSAA-EIS	24040.93	9.049334	29015.57	9.123734	
d3-NMeFOSA-EIS	1256.042	9.923616	2217.796	9.979983	
d3-N-MeFOSAA-EIS	26575.45	8.7982	33311.9	8.88255	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-06	File ID:	QQQ32483.d
Sampled:	11/13/23 11:45	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 14:44
Solids:	77.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.227	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.257	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.257	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.235	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.257	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.239	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.257	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.257	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.257	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.257	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.257	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.257	U	
2355-31-9	N-MeFOSAA	1	0.257	U	
2991-50-6	N-EtFOSAA	1	0.257	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.513	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.257	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.257	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.248	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	0.976	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	0.986	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.03 UJ ~~0.141~~	J	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.457	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.513	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.513	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.513	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.241	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	0.963	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.03	U	
763051-92-9	11CL-PF3OUdS	1	0.970	U	UJ
756426-58-1	9CL-PF3ONS	1	0.960	U	UJ
919005-14-4	ADONA	1	0.970	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.249	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.246	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.28	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	6.42	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	6.42	U	
24448-09-7	N-MeFOSE	1	2.57	U	
31506-32-8	N-MeFOSA	1	0.257	U	
1691-99-2	N-EtFOSE	1	2.57	U	
4151-50-2	N-EtFOSA	1	0.257	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-06	File ID:	QQQ32483.d
Sampled:	11/13/23 11:45	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 14:44
Solids:	77.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.49	2.18	87.7	25 - 150	
M5PFHxA	2.68	3.04	113	25 - 150	
M4PFHpA	2.68	3.48	130	25 - 150	
M3PFHxS	2.54	3.45	136	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.68	2.99	112	25 - 150	
M6PFDA	1.34	1.90	143	25 - 150	
M7PFUdA	1.34	1.69	126	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.34	1.40	105	25 - 150	
M2PFTeDA	1.34	1.34	100	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.7	0.288	2.69	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.56	3.33	130	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.35	0.394	7.37	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.68	2.55	95.4	10 - 150	
d3-N-MeFOSAA	5.35	4.46	83.5	25 - 150	
d5-N-EtFOSAA	5.35	5.36	100	25 - 150	
M2-6:2 FTS	5.08	3.54	69.7	25 - 200	
M2-8:2 FTS	5.13	4.51	87.8	25 - 200	
M9PFNA	1.34	2.00	150	25 - 150	
M2-4:2 FTS	5.02	2.52	50.3	25 - 150	
d-N-MeFOSA	2.68	1.65	61.8	25 - 150	
d-N-EtFOSA	2.68	1.65	61.7	25 - 150	
M3HFPO-DA	10.7	13.8	128	25 - 150	
d9-N-EtFOSE	26.8	15.5	57.9	25 - 150	
d7-N-MeFOSE	26.8	20.2	75.3	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	26294.96	1.197917	31665.78	1.2071	
MPFDA	12659.03	8.606116	15320.77	8.671	
MPFHxA	41560.61	5.93725	46962.84	5.96495	
MPFHxS	3603.945	6.83295	3801.397	6.889317	
MPFNA	15539.29	8.041	21420.79	8.115233	
MPFOA	40455.13	7.418583	43996.5	7.483483	
MPFOS	8459.496	8.085983	10942.46	8.150933	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	5113.396	8.04065	5877.14	8.114883	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	33570.04	7.4182	37131.31	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	6655.884	4.384717	131048.9	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2957.205	1.195633	169689.2	1.2048	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	20183.06	9.503366	29595.51	9.56845	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-06	File ID:	QQQ32483.d
Sampled:	11/13/23 11:45	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 14:44
Solids:	77.43	Preparation:	EPA 1633 Prep	Initial/Final:	5.03 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4174.31	8.076167	4168.529	8.1504	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12589.45	9.09185	16794.67	9.156934	
M7PFUdA-EIS	25590.57	9.078383	29625.15	9.14325	
M6PFDA-EIS	19354.77	8.596467	21571.7	8.6706	
M5PFHxA-EIS	60216.93	5.93605	74517.98	5.963767	
M4PFHpA-EIS	8789.362	6.731833	9390.186	6.788417	
M3PFHxS-EIS	10772.18	6.8335	11527.12	6.889783	
M3PFBS-EIS	12772.94	5.13185	20570.1	5.1503	
M3-HFPO-DA-EIS	42208.21	6.225833	53748.08	6.2536	
M2PFTeDA-EIS	10962.31	10.1842	16356.45	10.23025	
M2-8-2FTS-EIS	30933.74	8.5586	37290.25	8.632733	
M2-6-2FTS-EIS	16601.43	7.361817	17313.09	7.41745	
M2-4-2FTS-EIS	17645.25	5.86935	30771.55	5.8973	
d9-NEtFOSE-EIS	2769.674	10.16887	4797.038	10.2057	
d7-NMeFOSE-EIS	6748.045	9.9015	10325.32	9.948167	
d5-NEtFOSA-EIS	988.4382	10.20827	1428.829	10.24512	
d5-N-EtFOSAA-EIS	21623.37	9.05885	29015.57	9.123734	
d3-NMeFOSA-EIS	1432.606	9.93285	2217.796	9.979983	
d3-N-MeFOSAA-EIS	24804.68	8.807484	33311.9	8.88255	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-07	File ID:	QQQ32484.d
Sampled:	11/13/23 11:50	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 15:00
Solids:	62.21	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.281	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.317	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.317	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.290	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.317	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.295	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.317	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.317	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.317	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.317	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.317	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.317	U	
2355-31-9	N-MeFOSAA	1	0.317	U	
2991-50-6	N-EtFOSAA	1	0.317	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.634	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.317	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.317	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.306	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.20	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.22	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.27	U	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.564	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.634	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.634	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.634	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.298	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.19	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.27	U	
763051-92-9	11CL-PF3OUdS	1	1.20	U	UJ
756426-58-1	9CL-PF3ONS	1	1.19	U	UJ
919005-14-4	ADONA	1	1.20	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.308	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.304	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.59	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.93	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.93	U	
24448-09-7	N-MeFOSE	1	3.17	U	
31506-32-8	N-MeFOSA	1	0.317	U	
1691-99-2	N-EtFOSE	1	3.17	U	
4151-50-2	N-EtFOSA	1	0.317	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-07	File ID:	QQQ32484.d
Sampled:	11/13/23 11:50	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 15:00
Solids:	62.21	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	3.08	2.41	78.4	25 - 150	
M5PFHxA	3.31	3.72	112	25 - 150	
M4PFHpA	3.31	4.11	124	25 - 150	
M3PFHxS	3.13	4.04	129	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.31	3.74	113	25 - 150	
M6PFDA	1.65	2.27	138	25 - 150	
M7PFUdA	1.65	2.10	127	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.65	1.78	108	25 - 150	
M2PFTeDA	1.65	1.46	88.8	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	13.2	0.317	2.39	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.16	3.92	124	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.60	0.477	7.23	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.31	2.74	83.0	10 - 150	
d3-N-MeFOSAA	6.60	5.22	79.0	25 - 150	
d5-N-EtFOSAA	6.60	6.04	91.5	25 - 150	
M2-6:2 FTS	6.28	4.59	73.2	25 - 200	
M2-8:2 FTS	6.34	5.99	94.5	25 - 200	
M9PFNA	1.65	1.96	119	25 - 150	
M2-4:2 FTS	6.20	3.93	63.4	25 - 150	
d-N-MeFOSA	3.31	1.82	55.0	25 - 150	
d-N-EtFOSA	3.31	1.65	50.0	25 - 150	
M3HFPO-DA	13.2	16.6	126	25 - 150	
d9-N-EtFOSE	33.1	18.3	55.4	25 - 150	
d7-N-MeFOSE	33.1	22.8	69.0	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	27236.75	1.1612	31665.78	1.2071	
MPFDA	13409.74	8.65245	15320.77	8.671	
MPFHxA	42488.08	5.946483	46962.84	5.96495	
MPFHxS	3989.368	6.8708	3801.397	6.889317	
MPFNA	17972.78	8.10595	21420.79	8.115233	
MPFOA	40645.41	7.474216	43996.5	7.483483	
MPFOS	9425.335	8.14165	10942.46	8.150933	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4695.293	8.1056	5877.14	8.114883	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	34147.8	7.473834	37131.31	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	6669.485	4.338767	131048.9	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2726.838	1.1589	169689.2	1.2048	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	21981.97	9.5592	29595.51	9.56845	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-07	File ID:	QQQ32484.d
Sampled:	11/13/23 11:50	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 15:00
Solids:	62.21	Preparation:	EPA 1633 Prep	Initial/Final:	5.07 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	4386.726	8.141117	4168.529	8.1504	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	12196.6	9.14765	16794.67	9.156934	
M7PFUdA-EIS	27279.17	9.14325	29625.15	9.14325	
M6PFDA-EIS	19842.79	8.652066	21571.7	8.6706	
M5PFHxA-EIS	61013.64	5.9453	74517.98	5.963767	
M4PFHpA-EIS	8593.821	6.76995	9390.186	6.788417	
M3PFHxS-EIS	11298.36	6.871267	11527.12	6.889783	
M3PFBS-EIS	12741.49	5.122617	20570.1	5.1503	
M3-HFPO-DA-EIS	42227.08	6.24435	53748.08	6.2536	
M2PFTeDA-EIS	10288.85	10.25788	16356.45	10.23025	
M2-8-2FTS-EIS	36840.16	8.6142	37290.25	8.632733	
M2-6-2FTS-EIS	19294.34	7.408183	17313.09	7.41745	
M2-4-2FTS-EIS	24642.53	5.878817	30771.55	5.8973	
d9-NEtFOSE-EIS	2966.679	10.24255	4797.038	10.2057	
d7-NMeFOSE-EIS	6897.833	9.9666	10325.32	9.948167	
d5-NEtFOSA-EIS	873.6465	10.28195	1428.829	10.24512	
d5-N-EtFOSAA-EIS	21995.12	9.11445	29015.57	9.123734	
d3-NMeFOSA-EIS	1449.376	9.99845	2217.796	9.979983	
d3-N-MeFOSAA-EIS	26160.68	8.873266	33311.9	8.88255	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (22.5-25 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-08	File ID:	QQQ32485.d
Sampled:	11/13/23 12:00	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 15:16
Solids:	68.00	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	0.256	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	0.289	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	0.289	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.265	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	0.289	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	0.269	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	0.289	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.289	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	0.289	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	0.289	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	0.289	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	0.289	U	
2355-31-9	N-MeFOSAA	1	0.289	U	
2991-50-6	N-EtFOSAA	1	0.289	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	0.579	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	0.289	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	0.289	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	0.279	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	1.10	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	1.11	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1.16 UJ ~~0.159~~	J	UJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	0.515	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	0.579	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	0.579	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.579	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	0.272	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	1.09	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	1.16	U	
763051-92-9	11CL-PF3OUdS	1	1.09	U	UJ
756426-58-1	9CL-PF3ONS	1	1.08	U	UJ
919005-14-4	ADONA	1	1.09	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	0.281	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	0.278	U	UJ
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	1.45	U	UJ
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	7.24	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	7.24	U	
24448-09-7	N-MeFOSE	1	2.89	U	
31506-32-8	N-MeFOSA	1	0.289	U	
1691-99-2	N-EtFOSE	1	2.89	U	
4151-50-2	N-EtFOSA	1	0.289	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (22.5-25 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-08	File ID:	QQQ32485.d
Sampled:	11/13/23 12:00	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 15:16
Solids:	68.00	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
M3PFBS	2.81	2.38	84.8	25 - 150	
M5PFHxA	3.02	3.18	105	25 - 150	
M4PFHpA	3.02	3.63	120	25 - 150	
M3PFHxS	2.86	3.80	133	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.02	3.06	101	25 - 150	
M6PFDA	1.51	1.51	100	25 - 150	
M7PFUdA	1.51	1.39	92.7	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.51	1.20	79.8	25 - 150	
M2PFTeDA	1.51	1.00	66.7	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.1	0.286	2.37	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.89	2.15	74.6	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.03	0.416	6.90	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.02	1.79	59.5	10 - 150	
d3-N-MeFOSAA	6.03	2.75	45.6	25 - 150	
d5-N-EtFOSAA	6.03	2.98	49.4	25 - 150	
M2-6:2 FTS	5.73	3.55	61.9	25 - 200	
M2-8:2 FTS	5.79	2.95	50.9	25 - 200	
M9PFNA	1.51	1.62	107	25 - 150	
M2-4:2 FTS	5.66	3.88	68.6	25 - 150	
d-N-MeFOSA	3.02	1.40	46.5	25 - 150	
d-N-EtFOSA	3.02	1.15	38.0	25 - 150	
M3HFPO-DA	12.1	13.4	111	25 - 150	
d9-N-EtFOSE	30.2	7.99	26.5	25 - 150	
d7-N-MeFOSE	30.2	12.5	41.4	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	27486.66	1.14285	31665.78	1.2071	
MPFDA	12821.4	8.671	15320.77	8.671	
MPFHxA	42253.8	5.946483	46962.84	5.96495	
MPFHxS	3496.859	6.889317	3801.397	6.889317	
MPFNA	19109.84	8.115233	21420.79	8.115233	
MPFOA	38960.81	7.483483	43996.5	7.483483	
MPFOS	9244.346	8.150933	10942.46	8.150933	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4510.672	8.114883	5877.14	8.114883	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	29317.16	7.4831	37131.31	7.4831	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	6338.977	4.311183	131048.9	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2721.391	1.149733	169689.2	1.2048	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	15552.8	9.540717	29595.51	9.56845	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23SP6 (22.5-25 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-08	File ID:	QQQ32485.d
Sampled:	11/13/23 12:00	Prepared:	11/20/23 12:52	Analyzed:	11/22/23 15:16
Solids:	68.00	Preparation:	EPA 1633 Prep	Initial/Final:	5.08 g / 5 mL
Batch:	BK31292	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2590.743	8.160267	4168.529	8.1504	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8573.435	9.14765	16794.67	9.156934	
M7PFUdA-EIS	18985.74	9.133984	29625.15	9.14325	
M6PFDA-EIS	13771.91	8.6706	21571.7	8.6706	
M5PFHxA-EIS	56916.43	5.9453	74517.98	5.963767	
M4PFHpA-EIS	8268.345	6.779183	9390.186	6.788417	
M3PFHxS-EIS	10204.02	6.889783	11527.12	6.889783	
M3PFBS-EIS	12004.87	5.1134	20570.1	5.1503	
M3-HFPO-DA-EIS	37071.01	6.24435	53748.08	6.2536	
M2PFTeDA-EIS	7384.928	10.20263	16356.45	10.23025	
M2-8-2FTS-EIS	17398.36	8.632733	37290.25	8.632733	
M2-6-2FTS-EIS	14312.09	7.426717	17313.09	7.41745	
M2-4-2FTS-EIS	23380.92	5.878817	30771.55	5.8973	
d9-NEtFOSE-EIS	1396.564	10.18728	4797.038	10.2057	
d7-NMeFOSE-EIS	4075.761	9.929183	10325.32	9.948167	
d5-NEtFOSA-EIS	657.1379	10.22668	1428.829	10.24512	
d5-N-EtFOSAA-EIS	11647.54	9.11445	29015.57	9.123734	
d3-NMeFOSA-EIS	1215.079	9.96155	2217.796	9.979983	
d3-N-MeFOSAA-EIS	14810.49	8.873266	33311.9	8.88255	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

PFAS Field Blank

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water	Laboratory ID:	23K0980-11	File ID:	QQQ32496.d
Sampled:	11/13/23 15:00	Prepared:	11/21/23 12:23	Analyzed:	11/22/23 18:22
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	500 mL / 5 mL
Batch:	BK31413	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.77	U	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	2.00	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	2.00	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.83	U	UJ
335-67-1	Perfluorooctanoic acid (PFOA)	1	2.00	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	1.86	U	UJ
375-95-1	Perfluorononanoic acid (PFNA)	1	2.00	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.00	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	2.00	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	2.00	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	2.00	U	
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	2.00	U	
2355-31-9	N-MeFOSAA	1	2.00	U	UJ
2991-50-6	N-EtFOSAA	1	2.00	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	4.00	U	UJ
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	2.00	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.91	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.93	U	UJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.60	U	UJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.68	U	UJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	5.32	J	J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.56	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	4.00	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	4.00	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	4.00	U	UJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.88	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.50	U	UJ
13252-13-6	HFPO-DA (Gen-X)	1	8.00	U	
763051-92-9	11CL-PF3OUdS	1	7.56	U	UJ
756426-58-1	9CL-PF3ONS	1	7.48	U	UJ
919005-14-4	ADONA	1	7.56	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.94	U	UJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.92	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	5.00	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	25.0	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	25.0	U	
24448-09-7	N-MeFOSE	1	20.0	U	
31506-32-8	N-MeFOSA	1	2.00	U	
1691-99-2	N-EtFOSE	1	20.0	U	UJ
4151-50-2	N-EtFOSA	1	2.00	U	

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

PFAS Field Blank

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water	Laboratory ID:	23K0980-11	File ID:	QQQ32496.d
Sampled:	11/13/23 15:00	Prepared:	11/21/23 12:23	Analyzed:	11/22/23 18:22
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	500 mL / 5 mL
Batch:	BK31413	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	23.3	20.9	89.8	25 - 150	
M5PFHxA	25.0	24.5	97.9	25 - 150	
M4PFHpA	25.0	28.7	115	25 - 150	
M3PFHxS	23.7	25.9	109	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	25.0	22.6	90.6	25 - 150	
M6PFDA	12.5	13.7	109	25 - 150	
M7PFUdA	12.5	14.1	113	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	12.5	11.5	92.4	25 - 150	
M2PFTeDA	12.5	5.32	42.6	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	100	0.683	0.683	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	24.0	23.3	97.3	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	50.0	7.02	14.0	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	25.0	18.9	75.6	10 - 150	
d3-N-MeFOSAA	50.0	24.1	48.2	25 - 150	
d5-N-EtFOSAA	50.0	28.1	56.2	25 - 150	
M2-6:2 FTS	47.6	26.5	55.7	25 - 200	
M2-8:2 FTS	48.0	22.5	46.8	25 - 200	
M9PFNA	12.5	12.5	99.7	25 - 150	
M2-4:2 FTS	46.9	28.8	61.3	25 - 150	
d-N-MeFOSA	25.0	13.6	54.2	25 - 150	
d-N-EtFOSA	25.0	10.3	41.1	25 - 150	
M3HFPO-DA	100	111	111	25 - 150	
d9-N-EtFOSE	250	52.0	20.8	25 - 150	*
d7-N-MeFOSE	250	85.7	34.3	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	28654.88	1.188733	33260.49	1.216283	
MPFDA	11542.46	8.6432	14924.8	8.643184	
MPFHxA	42783.76	5.9742	49819.21	5.955717	
MPFHxS	3648.159	6.907817	3996.602	6.86155	
MPFNA	17622.26	8.096684	19862.61	8.0874	
MPFOA	39360.23	7.483483	45011.96	7.455667	
MPFOS	7761.741	8.132383	10301.59	8.1231	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4644.88	8.096316	5590.805	8.087033	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	31744.33	7.4831	37070.84	7.455283	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	15652.62	4.375533	135400.8	4.4031	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	981.4936	1.18645	174522.3	1.213983	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	19474.15	9.522217	29941.79	9.54995	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

PFAS Field Blank

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water	Laboratory ID:	23K0980-11	File ID:	QQQ32496.d
Sampled:	11/13/23 15:00	Prepared:	11/21/23 12:23	Analyzed:	11/22/23 18:22
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	500 mL / 5 mL
Batch:	BK31413	Sequence:	S3K2254	Calibration:	SJ30009
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3404.806	8.13185	4103.784	8.122566	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10983.12	9.11055	14355.42	9.138383	
M7PFUdA-EIS	25081.47	9.115417	30761.54	9.1247	
M6PFDA-EIS	16266.25	8.6428	19852.52	8.6428	
M5PFHxA-EIS	64127.75	5.973	76537.04	5.954533	
M4PFHpA-EIS	9589.742	6.7982	9884.477	6.760733	
M3PFHxS-EIS	10529.92	6.908283	11977.28	6.862017	
M3PFBS-EIS	15916.32	5.1503	20889.77	5.1503	
M3-HFPO-DA-EIS	45145.65	6.272117	55620.9	6.235083	
M2PFTeDA-EIS	5098.688	10.21183	15414.23	10.23025	
M2-8-2FTS-EIS	20043.06	8.604934	29577.94	8.604934	
M2-6-2FTS-EIS	16146.42	7.426717	19065.18	7.3989	
M2-4-2FTS-EIS	26141.95	5.8973	31960.28	5.878817	
d9-NEtFOSE-EIS	1108.588	10.16887	4663.843	10.1965	
d7-NMeFOSE-EIS	3395.857	9.9015	11395.56	9.93895	
d5-NEtFOSA-EIS	715.932	10.21748	1594.866	10.24512	
d5-N-EtFOSAA-EIS	13347.17	9.0959	23113.73	9.105166	
d3-NMeFOSA-EIS	1404.274	9.943117	2197.038	9.970767	
d3-N-MeFOSAA-EIS	15764.56	8.845417	27639.52	8.8547	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
CLASS: PEST
METHOD: EPA 8081B

DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: P7019836.D

Sampled: 11/13/23 09:15 Prepared: 11/20/23 10:18 Analyzed: 11/21/23 21:09

Solids: 86.66 Preparation: EPA 3550C Initial/Final: 30.2 g / 10 mL

Batch: BK31235 Sequence: S3K2247 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.89	U	
72-55-9	4,4'-DDE	5	1.89	U	
50-29-3	4,4'-DDT	5	1.89	U	
309-00-2	Aldrin	5	1.89	U	
319-84-6	alpha-BHC	5	1.89	U	
5103-71-9	alpha-Chlordane	5	1.89	U	
319-85-7	beta-BHC	5	1.89	U	
57-74-9	Chlordane, total	5	37.8	U	
319-86-8	delta-BHC	5	1.89	U	
60-57-1	Dieldrin	5	1.89	U	
959-98-8	Endosulfan I	5	1.89	U	
33213-65-9	Endosulfan II	5	1.89	U	
1031-07-8	Endosulfan sulfate	5	1.89	U	
72-20-8	Endrin	5	1.89	U	
7421-93-4	Endrin aldehyde	5	1.89	U	
53494-70-5	Endrin ketone	5	1.89	U	UJ
58-89-9	gamma-BHC (Lindane)	5	1.89	U	
5566-34-7	gamma-Chlordane	5	1.89	U	
76-44-8	Heptachlor	5	1.89	U	
1024-57-3	Heptachlor epoxide	5	1.89	U	
72-43-5	Methoxychlor	5	9.46	U	
8001-35-2	Toxaphene	5	95.7	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	76.4	67.2	87.9	30 - 150	
Tetrachloro-m-xylene	76.4	60.4	79.1	30 - 150	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID: P7019837.D

Sampled: 11/13/23 09:30 Prepared: 11/20/23 10:18 Analyzed: 11/21/23 21:27

Solids: 84.14 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31235 Sequence: S3K2247 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.95	U	
72-55-9	4,4'-DDE	5	1.95	U	
50-29-3	4,4'-DDT	5	1.95	U	
309-00-2	Aldrin	5	1.95	U	
319-84-6	alpha-BHC	5	1.95	U	
5103-71-9	alpha-Chlordane	5	1.95	U	
319-85-7	beta-BHC	5	1.95	U	
57-74-9	Chlordane, total	5	39.1	U	
319-86-8	delta-BHC	5	1.95	U	
60-57-1	Dieldrin	5	1.95	U	
959-98-8	Endosulfan I	5	1.95	U	
33213-65-9	Endosulfan II	5	1.95	U	
1031-07-8	Endosulfan sulfate	5	1.95	U	
72-20-8	Endrin	5	1.95	U	
7421-93-4	Endrin aldehyde	5	1.95	U	
53494-70-5	Endrin ketone	5	1.95	U	UJ
58-89-9	gamma-BHC (Lindane)	5	1.95	U	
5566-34-7	gamma-Chlordane	5	1.95	U	
76-44-8	Heptachlor	5	1.95	U	
1024-57-3	Heptachlor epoxide	5	1.95	U	
72-43-5	Methoxychlor	5	9.77	U	
8001-35-2	Toxaphene	5	98.9	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	79.0	65.0	82.3	30 - 150	
Tetrachloro-m-xylene	79.0	97.2	123	30 - 150	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID: P7019838.D

Sampled: 11/13/23 09:50 Prepared: 11/20/23 10:18 Analyzed: 11/21/23 21:45

Solids: 68.87 Preparation: EPA 3550C Initial/Final: 30.2 g / 10 mL

Batch: BK31235 Sequence: S3K2247 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	2.38	U	
72-55-9	4,4'-DDE	5	2.38	U	
50-29-3	4,4'-DDT	5	2.38	U	
309-00-2	Aldrin	5	2.38	U	
319-84-6	alpha-BHC	5	2.38	U	
5103-71-9	alpha-Chlordane	5	2.38	U	
319-85-7	beta-BHC	5	2.38	U	
57-74-9	Chlordane, total	5	47.6	U	
319-86-8	delta-BHC	5	2.38	U	
60-57-1	Dieldrin	5	2.38	U	
959-98-8	Endosulfan I	5	2.38	U	
33213-65-9	Endosulfan II	5	2.38	U	
1031-07-8	Endosulfan sulfate	5	2.38	U	
72-20-8	Endrin	5	2.38	U	
7421-93-4	Endrin aldehyde	5	2.38	U	
53494-70-5	Endrin ketone	5	2.38	U	UJ
58-89-9	gamma-BHC (Lindane)	5	2.38	U	
5566-34-7	gamma-Chlordane	5	2.38	U	
76-44-8	Heptachlor	5	2.38	U	
1024-57-3	Heptachlor epoxide	5	2.38	U	
72-43-5	Methoxychlor	5	11.9	U	
8001-35-2	Toxaphene	5	120	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	96.2	83.6	86.9	30 - 150	
Tetrachloro-m-xylene	96.2	103	107	30 - 150	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID: P7019839.D

Sampled: 11/13/23 10:00 Prepared: 11/20/23 10:18 Analyzed: 11/21/23 22:03

Solids: 81.84 Preparation: EPA 3550C Initial/Final: 30.6 g / 10 mL

Batch: BK31235 Sequence: S3K2247 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.98	U	
72-55-9	4,4'-DDE	5	1.98	U	
50-29-3	4,4'-DDT	5	1.98	U	
309-00-2	Aldrin	5	1.98	U	
319-84-6	alpha-BHC	5	1.98	U	
5103-71-9	alpha-Chlordane	5	1.98	U	
319-85-7	beta-BHC	5	1.98	U	
57-74-9	Chlordane, total	5	39.5	U	
319-86-8	delta-BHC	5	1.98	U	
60-57-1	Dieldrin	5	1.98	U	
959-98-8	Endosulfan I	5	1.98	U	
33213-65-9	Endosulfan II	5	1.98	U	
1031-07-8	Endosulfan sulfate	5	1.98	U	
72-20-8	Endrin	5	1.98	U	
7421-93-4	Endrin aldehyde	5	1.98	U	
53494-70-5	Endrin ketone	5	1.98	U	UJ
58-89-9	gamma-BHC (Lindane)	5	1.98	U	
5566-34-7	gamma-Chlordane	5	1.98	U	
76-44-8	Heptachlor	5	1.98	U	
1024-57-3	Heptachlor epoxide	5	1.98	U	
72-43-5	Methoxychlor	5	9.88	U	
8001-35-2	Toxaphene	5	100	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	79.9	70.3	88.0	30 - 150	
Tetrachloro-m-xylene	79.9	62.3	78.0	30 - 150	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: P7019826.D

Sampled: 11/13/23 11:20 Prepared: 11/20/23 10:18 Analyzed: 11/21/23 14:49

Solids: 92.23 Preparation: EPA 3550C Initial/Final: 30.6 g / 10 mL

Batch: BK31235 Sequence: S3K2247 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	1.75	U	
72-55-9	4,4'-DDE	5	1.75	U	
50-29-3	4,4'-DDT	5	2.74	D	
309-00-2	Aldrin	5	1.75	U	
319-84-6	alpha-BHC	5	1.75	U	
5103-71-9	alpha-Chlordane	5	1.75	U	
319-85-7	beta-BHC	5	1.75	U	
57-74-9	Chlordane, total	5	35.1	U	
319-86-8	delta-BHC	5	1.75	U	
60-57-1	Dieldrin	5	1.75	U	
959-98-8	Endosulfan I	5	1.75	U	
33213-65-9	Endosulfan II	5	1.75	U	
1031-07-8	Endosulfan sulfate	5	1.75	U	
72-20-8	Endrin	5	1.75	U	
7421-93-4	Endrin aldehyde	5	1.75	U	
53494-70-5	Endrin ketone	5	1.75	U	UJ
58-89-9	gamma-BHC (Lindane)	5	1.75	U	
5566-34-7	gamma-Chlordane	5	1.75	U	
76-44-8	Heptachlor	5	1.75	U	
1024-57-3	Heptachlor epoxide	5	1.75	U	
72-43-5	Methoxychlor	5	8.77	U	
8001-35-2	Toxaphene	5	88.8	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	70.9	53.4	75.3	30 - 150	
Tetrachloro-m-xylene	70.9	45.9	64.7	30 - 150	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID: P7019840.D

Sampled: 11/13/23 11:45 Prepared: 11/20/23 10:18 Analyzed: 11/21/23 22:20

Solids: 77.43 Preparation: EPA 3550C Initial/Final: 30.1 g / 10 mL

Batch: BK31235 Sequence: S3K2247 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	2.12	U	
72-55-9	4,4'-DDE	5	2.12	U	
50-29-3	4,4'-DDT	5	2.12	U	
309-00-2	Aldrin	5	2.12	U	
319-84-6	alpha-BHC	5	2.12	U	
5103-71-9	alpha-Chlordane	5	2.12	U	
319-85-7	beta-BHC	5	2.12	U	
57-74-9	Chlordane, total	5	42.5	U	
319-86-8	delta-BHC	5	2.12	U	
60-57-1	Dieldrin	5	2.12	U	
959-98-8	Endosulfan I	5	2.12	U	
33213-65-9	Endosulfan II	5	2.12	U	
1031-07-8	Endosulfan sulfate	5	2.12	U	
72-20-8	Endrin	5	2.12	U	
7421-93-4	Endrin aldehyde	5	2.12	U	
53494-70-5	Endrin ketone	5	2.12	U	UJ
58-89-9	gamma-BHC (Lindane)	5	2.12	U	
5566-34-7	gamma-Chlordane	5	2.12	U	
76-44-8	Heptachlor	5	2.12	U	
1024-57-3	Heptachlor epoxide	5	2.12	U	
72-43-5	Methoxychlor	5	10.6	U	
8001-35-2	Toxaphene	5	107	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	85.8	74.5	86.8	30 - 150	
Tetrachloro-m-xylene	85.8	83.0	96.7	30 - 150	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0980

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0980-07 | File ID: P7019841.D

Sampled: 11/13/23 11:50 | Prepared: 11/20/23 10:18 | Analyzed: 11/21/23 22:38

Solids: 62.21 | Preparation: EPA 3550C | Initial/Final: 30.2 g / 10 mL

Batch: BK31235 | Sequence: S3K2247 | Calibration: SK30033 | Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	2.63	U	
72-55-9	4,4'-DDE	5	2.63	U	
50-29-3	4,4'-DDT	5	2.63	U	
309-00-2	Aldrin	5	2.63	U	
319-84-6	alpha-BHC	5	2.63	U	
5103-71-9	alpha-Chlordane	5	2.63	U	
319-85-7	beta-BHC	5	2.63	U	
57-74-9	Chlordane, total	5	52.7	U	
319-86-8	delta-BHC	5	2.63	U	
60-57-1	Dieldrin	5	2.63	U	
959-98-8	Endosulfan I	5	2.63	U	
33213-65-9	Endosulfan II	5	2.63	U	
1031-07-8	Endosulfan sulfate	5	2.63	U	
72-20-8	Endrin	5	2.63	U	
7421-93-4	Endrin aldehyde	5	2.63	U	
53494-70-5	Endrin ketone	5	2.63	U	UJ
58-89-9	gamma-BHC (Lindane)	5	2.63	U	
5566-34-7	gamma-Chlordane	5	2.63	U	
76-44-8	Heptachlor	5	2.63	U	
1024-57-3	Heptachlor epoxide	5	2.63	U	
72-43-5	Methoxychlor	5	13.2	U	
8001-35-2	Toxaphene	5	133	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	106	104	97.4	30 - 150	
Tetrachloro-m-xylene	106	103	96.9	30 - 150	

* Values outside of QC limits

MKP 2/6/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID: P7019842.D

Sampled: 11/13/23 12:00 Prepared: 11/20/23 10:18 Analyzed: 11/21/23 22:56

Solids: 68.00 Preparation: EPA 3550C Initial/Final: 30.3 g / 10 mL

Batch: BK31235 Sequence: S3K2247 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg dry)	Q	
72-54-8	4,4'-DDD	5	2.40	U	
72-55-9	4,4'-DDE	5	2.40	U	
50-29-3	4,4'-DDT	5	2.40	U	
309-00-2	Aldrin	5	2.40	U	
319-84-6	alpha-BHC	5	2.40	U	
5103-71-9	alpha-Chlordane	5	2.40	U	
319-85-7	beta-BHC	5	2.40	U	
57-74-9	Chlordane, total	5	48.0	U	
319-86-8	delta-BHC	5	2.40	U	
60-57-1	Dieldrin	5	2.40	U	
959-98-8	Endosulfan I	5	2.40	U	
33213-65-9	Endosulfan II	5	2.40	U	
1031-07-8	Endosulfan sulfate	5	2.40	U	
72-20-8	Endrin	5	2.40	U	
7421-93-4	Endrin aldehyde	5	2.40	U	
53494-70-5	Endrin ketone	5	2.40	U	UJ
58-89-9	gamma-BHC (Lindane)	5	2.40	U	
5566-34-7	gamma-Chlordane	5	2.40	U	
76-44-8	Heptachlor	5	2.40	U	
1024-57-3	Heptachlor epoxide	5	2.40	U	
72-43-5	Methoxychlor	5	12.0	U	
8001-35-2	Toxaphene	5	122	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	97.1	86.8	89.4	30 - 150	
Tetrachloro-m-xylene	97.1	73.9	76.2	30 - 150	

* Values outside of QC limits

MKP 2/6/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: ARO

METHOD: EPA 8082A

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP5 (0-2.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-01	File ID:	P1133777.D
Sampled:	11/13/23 09:15	Prepared:	11/20/23 10:18	Analyzed:	11/21/23 09:28
Solids:	86.66	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK31235	Sequence:	S3K2168	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0191	U
11104-28-2	Aroclor 1221	1	0.0191	U
11141-16-5	Aroclor 1232	1	0.0191	U
53469-21-9	Aroclor 1242	1	0.0191	U
12672-29-6	Aroclor 1248	1	0.0191	U
11097-69-1	Aroclor 1254	1	0.0191	U
11096-82-5	Aroclor 1260	1	0.0191	U
1336-36-3	Total PCBs	1	0.0191	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0764	0.0520	68.0	30 - 140	
Decachlorobiphenyl	0.0764	0.0550	72.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP5 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-02	File ID:	P1133778.D
Sampled:	11/13/23 09:30	Prepared:	11/20/23 10:18	Analyzed:	11/21/23 09:42
Solids:	84.14	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31235	Sequence:	S3K2168	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0197	U
11104-28-2	Aroclor 1221	1	0.0197	U
11141-16-5	Aroclor 1232	1	0.0197	U
53469-21-9	Aroclor 1242	1	0.0197	U
12672-29-6	Aroclor 1248	1	0.0197	U
11097-69-1	Aroclor 1254	1	0.0197	U
11096-82-5	Aroclor 1260	1	0.0197	U
1336-36-3	Total PCBs	1	0.0197	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0790	0.0553	70.0	30 - 140	
Decachlorobiphenyl	0.0790	0.0628	79.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP5 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-03	File ID:	P1133779.D
Sampled:	11/13/23 09:50	Prepared:	11/20/23 10:18	Analyzed:	11/21/23 09:56
Solids:	68.87	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK31235	Sequence:	S3K2168	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0240	U
11104-28-2	Aroclor 1221	1	0.0240	U
11141-16-5	Aroclor 1232	1	0.0240	U
53469-21-9	Aroclor 1242	1	0.0240	U
12672-29-6	Aroclor 1248	1	0.0240	U
11097-69-1	Aroclor 1254	1	0.0240	U
11096-82-5	Aroclor 1260	1	0.0240	U
1336-36-3	Total PCBs	1	0.0240	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0962	0.0692	72.0	30 - 140	
Decachlorobiphenyl	0.0962	0.0784	81.5	30 - 140	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP5 (25-27.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-04	File ID:	P1133780.D
Sampled:	11/13/23 10:00	Prepared:	11/20/23 10:18	Analyzed:	11/21/23 10:10
Solids:	81.84	Preparation:	EPA 3550C	Initial/Final:	30.6 g / 10 mL
Batch:	BK31235	Sequence:	S3K2168	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0200	U
11104-28-2	Aroclor 1221	1	0.0200	U
11141-16-5	Aroclor 1232	1	0.0200	U
53469-21-9	Aroclor 1242	1	0.0200	U
12672-29-6	Aroclor 1248	1	0.0200	U
11097-69-1	Aroclor 1254	1	0.0200	U
11096-82-5	Aroclor 1260	1	0.0200	U
1336-36-3	Total PCBs	1	0.0200	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0799	0.0627	78.5	30 - 140	
Decachlorobiphenyl	0.0799	0.0703	88.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K0980

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil | Laboratory ID: 23K0980-05 | File ID: P1133781.D

Sampled: 11/13/23 11:20 | Prepared: 11/20/23 10:18 | Analyzed: 11/21/23 10:23

Solids: 92.23 | Preparation: EPA 3550C | Initial/Final: 30.6 g / 10 mL

Batch: BK31235 | Sequence: S3K2168 | Calibration: SJ30030 | Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0177	U
11104-28-2	Aroclor 1221	1	0.0177	U
11141-16-5	Aroclor 1232	1	0.0177	U
53469-21-9	Aroclor 1242	1	0.0177	U
12672-29-6	Aroclor 1248	1	0.0177	U
11097-69-1	Aroclor 1254	1	0.0177	U
11096-82-5	Aroclor 1260	1	0.0177	U
1336-36-3	Total PCBs	1	0.0177	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0709	0.0450	63.5	30 - 140	
Decachlorobiphenyl	0.0709	0.0549	77.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP6 (12.5-15 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-06	File ID:	P1133782.D
Sampled:	11/13/23 11:45	Prepared:	11/20/23 10:18	Analyzed:	11/21/23 10:37
Solids:	77.43	Preparation:	EPA 3550C	Initial/Final:	30.1 g / 10 mL
Batch:	BK31235	Sequence:	S3K2168	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0214	U
11104-28-2	Aroclor 1221	1	0.0214	U
11141-16-5	Aroclor 1232	1	0.0214	U
53469-21-9	Aroclor 1242	1	0.0214	U
12672-29-6	Aroclor 1248	1	0.0214	U
11097-69-1	Aroclor 1254	1	0.0214	U
11096-82-5	Aroclor 1260	1	0.0214	U
1336-36-3	Total PCBs	1	0.0214	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0858	0.0605	70.5	30 - 140	
Decachlorobiphenyl	0.0858	0.0691	80.5	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP6 (15-17.5 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-07	File ID:	P1133783.D
Sampled:	11/13/23 11:50	Prepared:	11/20/23 10:18	Analyzed:	11/21/23 10:51
Solids:	62.21	Preparation:	EPA 3550C	Initial/Final:	30.2 g / 10 mL
Batch:	BK31235	Sequence:	S3K2168	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0266	U
11104-28-2	Aroclor 1221	1	0.0266	U
11141-16-5	Aroclor 1232	1	0.0266	U
53469-21-9	Aroclor 1242	1	0.0266	U
12672-29-6	Aroclor 1248	1	0.0266	U
11097-69-1	Aroclor 1254	1	0.0266	U
11096-82-5	Aroclor 1260	1	0.0266	U
1336-36-3	Total PCBs	1	0.0266	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.106	0.0889	83.5	30 - 140	
Decachlorobiphenyl	0.106	0.102	96.0	30 - 140	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23SP6 (22.5-25 ft)

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil	Laboratory ID:	23K0980-08	File ID:	P1133784.D
Sampled:	11/13/23 12:00	Prepared:	11/20/23 10:18	Analyzed:	11/21/23 11:04
Solids:	68.00	Preparation:	EPA 3550C	Initial/Final:	30.3 g / 10 mL
Batch:	BK31235	Sequence:	S3K2168	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/kg dry)	Q
12674-11-2	Aroclor 1016	1	0.0243	U
11104-28-2	Aroclor 1221	1	0.0243	U
11141-16-5	Aroclor 1232	1	0.0243	U
53469-21-9	Aroclor 1242	1	0.0243	U
12672-29-6	Aroclor 1248	1	0.0243	U
11097-69-1	Aroclor 1254	1	0.0243	U
11096-82-5	Aroclor 1260	1	0.0243	U
1336-36-3	Total PCBs	1	0.0243	U

SYSTEM MONITORING COMPOUND	ADDED (mg/kg dry)	CONC (mg/kg dry)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.0971	0.0738	76.0	30 - 140	
Decachlorobiphenyl	0.0971	0.0840	86.5	30 - 140	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: METALS

METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: QBICP2-112223BRE_1-035

Sampled: 11/13/23 09:15 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:40

Solids: 86.66 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	7080	1		EPA 6010D	
7440-36-0	Antimony	2.40	1	U	EPA 6010D	
7440-38-2	Arsenic	4.95	1		EPA 6010D	
7440-39-3	Barium	145	1		EPA 6010D	
7440-41-7	Beryllium	0.048	1	U	EPA 6010D	
7440-43-9	Cadmium	0.809	1		EPA 6010D	
7440-70-2	Calcium	18300	1		EPA 6010D	
7440-47-3	Chromium	16.6	1		EPA 6010D	
7440-48-4	Cobalt	5.42	1		EPA 6010D	
7440-50-8	Copper	51.2	1		EPA 6010D	
7439-89-6	Iron	14700	1		EPA 6010D	
7439-92-1	Lead	309	1	B	EPA 6010D	
7439-95-4	Magnesium	10000	1		EPA 6010D	
7439-96-5	Manganese	233	1		EPA 6010D	
7440-02-0	Nickel	16.2	1		EPA 6010D	
7440-09-7	Potassium	1300	1		EPA 6010D	
7782-49-2	Selenium	2.40	1	U	EPA 6010D	
7440-22-4	Silver	0.485	1	U	EPA 6010D	
7440-23-5	Sodium	456	1		EPA 6010D	
7440-28-0	Thallium	2.40	1	U	EPA 6010D	
7440-62-2	Vanadium	22.4	1		EPA 6010D	
7440-66-6	Zinc	38.8	1		EPA 6010D	J+

MKP 2/6/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID: QBICP2-112223BRE_1-036

Sampled: 11/13/23 09:30 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:43

Solids: 84.14 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	7600	1		EPA 6010D	
7440-36-0	Antimony	2.48	1	U	EPA 6010D	
7440-38-2	Arsenic	12.7	1		EPA 6010D	
7440-39-3	Barium	170	1		EPA 6010D	
7440-41-7	Beryllium	0.091	1		EPA 6010D	
7440-43-9	Cadmium	0.297	1	U	EPA 6010D	
7440-70-2	Calcium	9040	1		EPA 6010D	
7440-47-3	Chromium	20.1	1		EPA 6010D	
7440-48-4	Cobalt	7.57	1		EPA 6010D	
7440-50-8	Copper	39.3	1		EPA 6010D	
7439-89-6	Iron	10100	1		EPA 6010D	
7439-92-1	Lead	350	1	B	EPA 6010D	
7439-95-4	Magnesium	1660	1		EPA 6010D	
7439-96-5	Manganese	162	1		EPA 6010D	
7440-02-0	Nickel	21.8	1		EPA 6010D	
7440-09-7	Potassium	1020	1		EPA 6010D	
7782-49-2	Selenium	2.89	1		EPA 6010D	
7440-22-4	Silver	0.499	1	U	EPA 6010D	
7440-23-5	Sodium	865	1		EPA 6010D	
7440-28-0	Thallium	2.48	1	U	EPA 6010D	
7440-62-2	Vanadium	27.2	1		EPA 6010D	
7440-66-6	Zinc	48.2	1		EPA 6010D	J+

MKP 2/6/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID: QBICP2-112223BRE_1-037

Sampled: 11/13/23 09:50 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:45

Solids: 68.87 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	6460	1		EPA 6010D	
7440-36-0	Antimony	3.02	1	U	EPA 6010D	
7440-38-2	Arsenic	5.60	1		EPA 6010D	
7440-39-3	Barium	124	1		EPA 6010D	
7440-41-7	Beryllium	0.061	1	U	EPA 6010D	
7440-43-9	Cadmium	0.363	1	U	EPA 6010D	
7440-70-2	Calcium	36900	1		EPA 6010D	
7440-47-3	Chromium	44.2	1		EPA 6010D	
7440-48-4	Cobalt	6.75	1		EPA 6010D	
7440-50-8	Copper	41.3	1		EPA 6010D	
7439-89-6	Iron	12400	1		EPA 6010D	
7439-92-1	Lead	226	1	B	EPA 6010D	
7439-95-4	Magnesium	8890	1		EPA 6010D	
7439-96-5	Manganese	252	1		EPA 6010D	
7440-02-0	Nickel	39.1	1		EPA 6010D	
7440-09-7	Potassium	1330	1		EPA 6010D	
7782-49-2	Selenium	3.02	1	U	EPA 6010D	
7440-22-4	Silver	0.610	1	U	EPA 6010D	
7440-23-5	Sodium	819	1		EPA 6010D	
7440-28-0	Thallium	3.02	1	U	EPA 6010D	
7440-62-2	Vanadium	25.9	1		EPA 6010D	
7440-66-6	Zinc	107	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID: QBICP2-112223BRE_1-038

Sampled: 11/13/23 10:00 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:47

Solids: 81.84 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	10400	1		EPA 6010D	
7440-36-0	Antimony	2.55	1	U	EPA 6010D	
7440-38-2	Arsenic	3.19	1		EPA 6010D	
7440-39-3	Barium	55.2	1		EPA 6010D	
7440-41-7	Beryllium	0.051	1	U	EPA 6010D	
7440-43-9	Cadmium	0.305	1	U	EPA 6010D	
7440-70-2	Calcium	2300	1		EPA 6010D	
7440-47-3	Chromium	34.1	1		EPA 6010D	
7440-48-4	Cobalt	6.77	1		EPA 6010D	
7440-50-8	Copper	19.8	1		EPA 6010D	
7439-89-6	Iron	18700	1		EPA 6010D	
7439-92-1	Lead	7.27	1	B	EPA 6010D	
7439-95-4	Magnesium	5710	1		EPA 6010D	
7439-96-5	Manganese	111	1		EPA 6010D	
7440-02-0	Nickel	18.4	1		EPA 6010D	
7440-09-7	Potassium	2640	1		EPA 6010D	
7782-49-2	Selenium	3.09	1		EPA 6010D	
7440-22-4	Silver	0.513	1	U	EPA 6010D	
7440-23-5	Sodium	50.9	1	U	EPA 6010D	
7440-28-0	Thallium	2.55	1	U	EPA 6010D	
7440-62-2	Vanadium	35.1	1		EPA 6010D	
7440-66-6	Zinc	84.5	1		EPA 6010D	J+

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: QBICP2-112223BRE_1-039

Sampled: 11/13/23 11:20 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:50

Solids: 92.23 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	7070	1		EPA 6010D	
7440-36-0	Antimony	2.26	1	U	EPA 6010D	
7440-38-2	Arsenic	5.67	1		EPA 6010D	
7440-39-3	Barium	157	1		EPA 6010D	
7440-41-7	Beryllium	0.046	1	U	EPA 6010D	
7440-43-9	Cadmium	1.21	1		EPA 6010D	
7440-70-2	Calcium	24900	1		EPA 6010D	
7440-47-3	Chromium	17.9	1		EPA 6010D	
7440-48-4	Cobalt	5.77	1		EPA 6010D	
7440-50-8	Copper	57.7	1		EPA 6010D	
7439-89-6	Iron	14700	1		EPA 6010D	
7439-92-1	Lead	318	1	B	EPA 6010D	
7439-95-4	Magnesium	9050	1		EPA 6010D	
7439-96-5	Manganese	216	1		EPA 6010D	
7440-02-0	Nickel	15.0	1		EPA 6010D	
7440-09-7	Potassium	1340	1		EPA 6010D	
7782-49-2	Selenium	2.26	1	U	EPA 6010D	
7440-22-4	Silver	0.455	1	U	EPA 6010D	
7440-23-5	Sodium	453	1		EPA 6010D	
7440-28-0	Thallium	2.26	1	U	EPA 6010D	
7440-62-2	Vanadium	30.1	1		EPA 6010D	
7440-66-6	Zinc	42.0	1		EPA 6010D	J+

MKP 2/6/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID: QBICP2-112223BRE_1-040

Sampled: 11/13/23 11:45 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:52

Solids: 77.43 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	11200	1		EPA 6010D	
7440-36-0	Antimony	2.69	1	U	EPA 6010D	
7440-38-2	Arsenic	8.73	1		EPA 6010D	
7440-39-3	Barium	143	1		EPA 6010D	
7440-41-7	Beryllium	0.054	1	U	EPA 6010D	
7440-43-9	Cadmium	0.323	1	U	EPA 6010D	
7440-70-2	Calcium	9230	1		EPA 6010D	
7440-47-3	Chromium	22.3	1		EPA 6010D	
7440-48-4	Cobalt	9.33	1		EPA 6010D	
7440-50-8	Copper	34.8	1		EPA 6010D	
7439-89-6	Iron	17400	1		EPA 6010D	
7439-92-1	Lead	335	1	B	EPA 6010D	
7439-95-4	Magnesium	4600	1		EPA 6010D	
7439-96-5	Manganese	278	1		EPA 6010D	
7440-02-0	Nickel	19.4	1		EPA 6010D	
7440-09-7	Potassium	4340	1		EPA 6010D	
7782-49-2	Selenium	3.04	1		EPA 6010D	
7440-22-4	Silver	0.542	1	U	EPA 6010D	
7440-23-5	Sodium	53.8	1	U	EPA 6010D	
7440-28-0	Thallium	2.69	1	U	EPA 6010D	
7440-62-2	Vanadium	30.4	1		EPA 6010D	
7440-66-6	Zinc	53.4	1		EPA 6010D	J+

MKP 2/6/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID: QBICP2-112223BRE_1-041

Sampled: 11/13/23 11:50 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:54

Solids: 62.21 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	7700	1		EPA 6010D	
7440-36-0	Antimony	3.35	1	U	EPA 6010D	
7440-38-2	Arsenic	10.2	1		EPA 6010D	
7440-39-3	Barium	178	1		EPA 6010D	
7440-41-7	Beryllium	0.068	1	U	EPA 6010D	
7440-43-9	Cadmium	0.402	1	U	EPA 6010D	
7440-70-2	Calcium	5380	1		EPA 6010D	
7440-47-3	Chromium	15.4	1		EPA 6010D	
7440-48-4	Cobalt	7.74	1		EPA 6010D	
7440-50-8	Copper	47.1	1		EPA 6010D	
7439-89-6	Iron	11800	1		EPA 6010D	
7439-92-1	Lead	256	1	B	EPA 6010D	
7439-95-4	Magnesium	1170	1		EPA 6010D	
7439-96-5	Manganese	162	1		EPA 6010D	
7440-02-0	Nickel	17.1	1		EPA 6010D	
7440-09-7	Potassium	1460	1		EPA 6010D	
7782-49-2	Selenium	3.35	1	U	EPA 6010D	
7440-22-4	Silver	0.675	1	U	EPA 6010D	
7440-23-5	Sodium	398	1		EPA 6010D	
7440-28-0	Thallium	3.35	1	U	EPA 6010D	
7440-62-2	Vanadium	26.2	1		EPA 6010D	
7440-66-6	Zinc	36.2	1		EPA 6010D	J+

MKP 2/6/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID: QBICP2-112223BRE_1-042

Sampled: 11/13/23 12:00 Prepared: 11/22/23 08:25 Analyzed: 11/22/23 17:57

Solids: 68.00 Preparation: EPA 3050B Initial/Final: 0.6 g / 50 mL

Batch: BK31472 Sequence: S3K2255 Calibration: 11/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	14700	1		EPA 6010D	
7440-36-0	Antimony	3.06	1	U	EPA 6010D	
7440-38-2	Arsenic	8.66	1		EPA 6010D	
7440-39-3	Barium	50.3	1		EPA 6010D	
7440-41-7	Beryllium	0.062	1	U	EPA 6010D	
7440-43-9	Cadmium	0.368	1	U	EPA 6010D	
7440-70-2	Calcium	1830	1		EPA 6010D	
7440-47-3	Chromium	28.4	1		EPA 6010D	
7440-48-4	Cobalt	7.90	1		EPA 6010D	
7440-50-8	Copper	11.5	1		EPA 6010D	
7439-89-6	Iron	24700	1		EPA 6010D	
7439-92-1	Lead	14.9	1	B	EPA 6010D	
7439-95-4	Magnesium	5670	1		EPA 6010D	
7439-96-5	Manganese	295	1		EPA 6010D	
7440-02-0	Nickel	19.5	1		EPA 6010D	
7440-09-7	Potassium	3020	1		EPA 6010D	
7782-49-2	Selenium	5.89	1		EPA 6010D	
7440-22-4	Silver	0.618	1	U	EPA 6010D	
7440-23-5	Sodium	155	1		EPA 6010D	
7440-28-0	Thallium	3.06	1	U	EPA 6010D	
7440-62-2	Vanadium	34.2	1		EPA 6010D	
7440-66-6	Zinc	70.2	1		EPA 6010D	J+

MKP 2/6/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: METALS

METHOD: EPA 6010D/1311

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

EPA 6010D/1311

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (15-17.5 ft)	23K0980-03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/29/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D/1311

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID: QBICP2-122223ARE_1-081

Sampled: 11/13/23 09:50 Prepared: 12/22/23 09:07 Analyzed: 12/22/23 13:41

Solids: 68.87 Preparation: EPA 3015A/1311 Initial/Final: 2 mL / 50 mL

Batch: BL31609 Sequence: S3L2228 Calibration: 12/22/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	0.375	1	U	EPA 6010D/1311
7440-39-3	Barium	0.907	1		EPA 6010D/1311
7440-43-9	Cadmium	0.075	1	U	EPA 6010D/1311
7440-47-3	Chromium	0.125	1	U	EPA 6010D/1311
7439-92-1	Lead	0.589	1		EPA 6010D/1311
7782-49-2	Selenium	0.625	1	U	EPA 6010D/1311
7440-22-4	Silver	0.125	1	U	EPA 6010D/1311

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: HG

METHOD: EPA 7473

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

EPA 7473

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID: QBHg-DMA-01 111923a

Sampled: 11/13/23 09:15 Prepared: 11/19/23 10:09 Analyzed: 11/19/23 15:38

Solids: 86.66 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31234 Sequence: S3K1903 Calibration: 11/19/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.227	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID: QBHg-DMA-01 111923a

Sampled: 11/13/23 09:30 Prepared: 11/19/23 10:09 Analyzed: 11/19/23 15:38

Solids: 84.14 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31234 Sequence: S3K1903 Calibration: 11/19/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	63.6	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID: QBHg-DMA-01 111923a

Sampled: 11/13/23 09:50 Prepared: 11/19/23 10:09 Analyzed: 11/19/23 15:38

Solids: 68.87 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31234 Sequence: S3K1903 Calibration: 11/19/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	2.16	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID: QBHg-DMA-01 111923a

Sampled: 11/13/23 10:00 Prepared: 11/19/23 10:09 Analyzed: 11/19/23 15:38

Solids: 81.84 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31234 Sequence: S3K1903 Calibration: 11/19/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0367	1	U	EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID: QBHg-DMA-01 111923a

Sampled: 11/13/23 11:20 Prepared: 11/19/23 10:09 Analyzed: 11/19/23 15:38

Solids: 92.23 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31234 Sequence: S3K1903 Calibration: 11/19/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.281	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID: QBHg-DMA-01 111923a

Sampled: 11/13/23 11:45 Prepared: 11/19/23 10:09 Analyzed: 11/19/23 15:38

Solids: 77.43 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31234 Sequence: S3K1903 Calibration: 11/19/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	2.13	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID: QBHg-DMA-01 111923a

Sampled: 11/13/23 11:50 Prepared: 11/19/23 10:09 Analyzed: 11/19/23 15:38

Solids: 62.21 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31234 Sequence: S3K1903 Calibration: 11/19/23 1 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	1.37	1		EPA 7473

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7473

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID: QBHg DMA 80-03 112123a

Sampled: 11/13/23 12:00 Prepared: 11/21/23 14:41 Analyzed: 11/21/23 21:12

Solids: 68.00 Preparation: EPA 7473 soil Initial/Final: 0.2 g / 0.2 g

Batch: BK31420 Sequence: S3K2170 Calibration: 11/21/23 2 Instrument: DMA 80-01

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0441	1	U	EPA 7473

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: HG

METHOD: EPA 7470/1311

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

EPA 7470/1311

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (15-17.5 ft)	23K0980-03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/29/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470/1311

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID: QBHg12222023A-039

Sampled: 11/13/23 09:50 Prepared: 12/22/23 08:53 Analyzed: 12/22/23 08:53

Solids: 68.87 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BL31603 Sequence: Calibration: 12/22/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.000200	1	U	EPA 7470/1311

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: WET

METHOD: Calculation

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

Calculation

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

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Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID:

Sampled: 11/13/23 09:15 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 86.66 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	16.6	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID:

Sampled: 11/13/23 09:30 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 84.14 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	20.1	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID:

Sampled: 11/13/23 09:50 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 68.87 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	44.2	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID:

Sampled: 11/13/23 10:00 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 81.84 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	32.3	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID:

Sampled: 11/13/23 11:20 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 92.23 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	15.2	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID:

Sampled: 11/13/23 11:45 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 77.43 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	22.3	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID:

Sampled: 11/13/23 11:50 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 62.21 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	15.4	1		Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID:

Sampled: 11/13/23 12:00 Prepared: 11/22/23 07:15 Analyzed: 11/22/23 18:34

Solids: 68.00 Preparation: Analysis Preparation Initial/Final: 2.5 g / 100 mL

Batch: BK31444 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	28.4	1		Calculation

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: WET

METHOD: EPA 7196A

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

EPA 7196A

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

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Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID:

Sampled: 11/13/23 09:15 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 86.66 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.577	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID:

Sampled: 11/13/23 09:30 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 84.14 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.594	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID:

Sampled: 11/13/23 09:50 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 68.87 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.726	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID:

Sampled: 11/13/23 10:00 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 81.84 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	1.76	1		EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID:

Sampled: 11/13/23 11:20 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 92.23 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	2.69	1		EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID:

Sampled: 11/13/23 11:45 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 77.43 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.646	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID:

Sampled: 11/13/23 11:50 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 62.21 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.804	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID:

Sampled: 11/13/23 12:00 Prepared: 11/20/23 14:08 Analyzed: 11/20/23 18:53

Solids: 68.00 Preparation: EPA SW846-3060 Initial/Final: 2.5 g / 100 mL

Batch: BK31311 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.735	1	U	EPA 7196A

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: WET

METHOD: EPA 9014/9010C

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

EPA 9014/9010C

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID:

Sampled: 11/13/23 09:15 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 86.66 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.577	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID:

Sampled: 11/13/23 09:30 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 84.14 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.594	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID:

Sampled: 11/13/23 09:50 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 68.87 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	2.54	1		EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID:

Sampled: 11/13/23 10:00 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 81.84 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.611	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID:

Sampled: 11/13/23 11:20 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 92.23 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.542	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID:

Sampled: 11/13/23 11:45 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 77.43 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.646	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID:

Sampled: 11/13/23 11:50 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 62.21 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.804	1	U	EPA 9014/9010C

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9014/9010C

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID:

Sampled: 11/13/23 12:00 Prepared: 11/20/23 10:01 Analyzed: 11/20/23 16:06

Solids: 68.00 Preparation: Analysis Preparation Soil Initial/Final: 1 g / 50 mL

Batch: BK31294 Sequence: Calibration: 11/20/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.735	1	U	EPA 9014/9010C

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: WET

METHOD: EPA 9045D

DATA PACKAGE COVER PAGE

EPA 9045D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (15-17.5 ft)	23K0980-03

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/29/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 9045D

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID:

Sampled: 11/13/23 09:50 Prepared: 12/18/23 14:47 Analyzed: 12/18/23 22:53

Solids: 68.87 Preparation: Analysis Preparation Initial/Final: 20 g / 20 mL

Batch: BL31191 Sequence: Calibration: 12/18/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (pH units)	Dilution Factor	Q	Method	
	pH	8.15	1		EPA 9045D	J

MKP 2/6/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K0980

CLASS: WET

METHOD: SM 2540G

No data validation qualifiers were added

MKP 2/6/2024

DATA PACKAGE COVER PAGE

SM 2540G

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SP5 (0-2.5 ft)	23K0980-01
23SP5 (12.5-15 ft)	23K0980-02
23SP5 (15-17.5 ft)	23K0980-03
23SP5 (25-27.5 ft)	23K0980-04
23SP6 (0-2.5 ft)	23K0980-05
23SP6 (12.5-15 ft)	23K0980-06
23SP6 (15-17.5 ft)	23K0980-07
23SP6 (22.5-25 ft)	23K0980-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP5 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-01 File ID:

Sampled: 11/13/23 09:15 Prepared: 11/21/23 08:24 Analyzed: 11/21/23 15:55

Solids: 86.66 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31369 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	86.7	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP5 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-02 File ID:

Sampled: 11/13/23 09:30 Prepared: 11/21/23 08:24 Analyzed: 11/21/23 15:55

Solids: 84.14 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31369 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	84.1	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP5 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-03 File ID:

Sampled: 11/13/23 09:50 Prepared: 11/21/23 08:24 Analyzed: 11/21/23 15:55

Solids: 68.87 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31369 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	68.9	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP5 (25-27.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-04 File ID:

Sampled: 11/13/23 10:00 Prepared: 11/21/23 08:24 Analyzed: 11/21/23 15:55

Solids: 81.84 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31369 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	81.8	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP6 (0-2.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-05 File ID:

Sampled: 11/13/23 11:20 Prepared: 11/21/23 08:38 Analyzed: 11/21/23 16:07

Solids: 92.23 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31378 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	92.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP6 (12.5-15 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-06 File ID:

Sampled: 11/13/23 11:45 Prepared: 11/21/23 08:38 Analyzed: 11/21/23 16:07

Solids: 77.43 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31378 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	77.4	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP6 (15-17.5 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-07 File ID:

Sampled: 11/13/23 11:50 Prepared: 11/21/23 08:38 Analyzed: 11/21/23 16:07

Solids: 62.21 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31378 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	62.2	1		SM 2540G

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2540G

23SP6 (22.5-25 ft)

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Soil Laboratory ID: 23K0980-08 File ID:

Sampled: 11/13/23 12:00 Prepared: 11/21/23 08:38 Analyzed: 11/21/23 16:07

Solids: 68.00 Preparation: % Solids Prep Initial/Final: 5 g / 5 g

Batch: BK31378 Sequence: Calibration: 11/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	Q	Method
solids	% Solids	68.0	1		SM 2540G

Appendix B

Laboratory QC Documentation

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2022
Instrument: MS VOA 2
Calibration: SK30029

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K2022-CCV1)			Lab File ID: V2625113.D		Analyzed: 11/19/23 12:35			
SURR: 1,2-Dichloroethane-d4	50.0	94.2	80 - 120	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	95.8	80 - 120	7.494	7.494571	-0.0006	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	97.1	80 - 120	10.293	10.29386	-0.0009	+/-1.00	
LCS (BK31242-BS1)			Lab File ID: V2625114.D		Analyzed: 11/19/23 13:10			
SURR: 1,2-Dichloroethane-d4	50.0	94.5	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	96.5	85 - 120	7.495	7.494571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	98.3	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
LCS Dup (BK31242-BSD1)			Lab File ID: V2625115.D		Analyzed: 11/19/23 13:38			
SURR: 1,2-Dichloroethane-d4	50.0	94.8	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	97.6	85 - 120	7.495	7.494571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	101	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
Blank (BK31242-BLK1)			Lab File ID: V2625116.D		Analyzed: 11/19/23 14:06			
SURR: 1,2-Dichloroethane-d4	50.0	93.6	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	97.1	85 - 120	7.495	7.494571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	111	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
Blank (BK31242-BLK2)			Lab File ID: V2625117.D		Analyzed: 11/19/23 14:33			
SURR: 1,2-Dichloroethane-d4	50.0	95.3	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	96.2	85 - 120	7.494	7.494571	-0.0006	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	112	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
23SP5 (25-27.5 ft) (23K0980-04)			Lab File ID: V2625118.D		Analyzed: 11/19/23 15:01			
SURR: 1,2-Dichloroethane-d4	50.0	96.9	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	95.5	85 - 120	7.494	7.494571	-0.0006	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	110	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
23SP6 (22.5-25 ft) (23K0980-08)			Lab File ID: V2625129.D		Analyzed: 11/19/23 20:32			
SURR: 1,2-Dichloroethane-d4	50.0	104	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	95.6	85 - 120	7.495	7.494571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	119	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
23SP5 (12.5-15 ft) (23K0980-02)			Lab File ID: V2625130.D		Analyzed: 11/19/23 21:00			
SURR: 1,2-Dichloroethane-d4	50.0	51.2	77 - 125	5.684	5.684	0.0000	+/-1.00	*
SURR: Toluene-d8	50.0	97.3	85 - 120	7.495	7.494571	0.0004	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	138	76 - 130	10.293	10.29386	-0.0009	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Sequence:	S3K2022	Instrument:	MS VOA 2
		Calibration:	SK30029

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP5 (15-17.5 ft) (23K0980-03)			Lab File ID: V2625131.D		Analyzed: 11/19/23 21:27			
SURR: 1,2-Dichloroethane-d4	50.0	73.1	77 - 125	5.684	5.684	0.0000	+/-1.00	*
SURR: Toluene-d8	50.0	95.9	85 - 120	7.488	7.494571	-0.0066	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	124	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
23SP6 (12.5-15 ft) (23K0980-06)			Lab File ID: V2625132.D		Analyzed: 11/19/23 21:55			
SURR: 1,2-Dichloroethane-d4	50.0	84.8	77 - 125	5.678	5.684	-0.0060	+/-1.00	
SURR: Toluene-d8	50.0	95.2	85 - 120	7.489	7.494571	-0.0056	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	123	76 - 130	10.293	10.29386	-0.0009	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2123
Instrument: MS VOA 2
Calibration: SK30029

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K2123-CCV1)			Lab File ID: V2625137.D		Analyzed: 11/20/23 10:34			
SURR: 1,2-Dichloroethane-d4	50.0	98.8	80 - 120	5.678	5.684	-0.0060	+/-1.00	
SURR: Toluene-d8	50.0	94.3	80 - 120	7.488	7.494571	-0.0066	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	104	80 - 120	10.293	10.29386	-0.0009	+/-1.00	
LCS (BK31257-BS1)			Lab File ID: V2625138.D		Analyzed: 11/20/23 11:22			
SURR: 1,2-Dichloroethane-d4	50.0	97.0	77 - 125	5.678	5.684	-0.0060	+/-1.00	
SURR: Toluene-d8	50.0	95.4	85 - 120	7.489	7.494571	-0.0056	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	110	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
LCS Dup (BK31257-BSD1)			Lab File ID: V2625139.D		Analyzed: 11/20/23 11:49			
SURR: 1,2-Dichloroethane-d4	50.0	102	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	92.5	85 - 120	7.489	7.494571	-0.0056	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	106	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
Blank (BK31257-BLK1)			Lab File ID: V2625140.D		Analyzed: 11/20/23 12:17			
SURR: 1,2-Dichloroethane-d4	50.0	97.5	77 - 125	5.678	5.684	-0.0060	+/-1.00	
SURR: Toluene-d8	50.0	94.2	85 - 120	7.489	7.494571	-0.0056	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	112	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
Blank (BK31257-BLK2)			Lab File ID: V2625141.D		Analyzed: 11/20/23 12:45			
SURR: 1,2-Dichloroethane-d4	50.0	94.2	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	94.3	85 - 120	7.488	7.494571	-0.0066	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	111	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
23SP5 (0-2.5 ft) (23K0980-01)			Lab File ID: V2625144.D		Analyzed: 11/20/23 14:08			
SURR: 1,2-Dichloroethane-d4	50.0	95.9	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	96.7	85 - 120	7.488	7.494571	-0.0066	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	113	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
23SP6 (0-2.5 ft) (23K0980-05)			Lab File ID: V2625145.D		Analyzed: 11/20/23 14:35			
SURR: 1,2-Dichloroethane-d4	50.0	97.8	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	97.2	85 - 120	7.488	7.494571	-0.0066	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	111	76 - 130	10.293	10.29386	-0.0009	+/-1.00	
23SP6 (15-17.5 ft) (23K0980-07)			Lab File ID: V2625146.D		Analyzed: 11/20/23 15:03			
SURR: 1,2-Dichloroethane-d4	50.0	88.2	77 - 125	5.684	5.684	0.0000	+/-1.00	
SURR: Toluene-d8	50.0	90.0	85 - 120	7.488	7.494571	-0.0066	+/-1.00	
SURR: p-Bromofluorobenzene	50.0	139	76 - 130	10.293	10.29386	-0.0009	+/-1.00	*

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31242	Laboratory ID:	BK31242-BS1
Preparation:	EPA 5030B/1311	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	46	92.0	75 - 129
1,1,1-Trichloroethane	50.0	46	91.3	71 - 137
1,1,2,2-Tetrachloroethane	50.0	47	93.6	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	51	101	58 - 146
1,1,2-Trichloroethane	50.0	45	89.1	83 - 123
1,1-Dichloroethane	50.0	44	88.5	75 - 130
1,1-Dichloroethylene	50.0	48	96.0	64 - 137
1,2,3-Trichlorobenzene	50.0	44	88.5	81 - 140
1,2,3-Trichloropropane	50.0	46	91.8	81 - 126
1,2,4-Trichlorobenzene	50.0	47	93.9	80 - 141
1,2,4-Trimethylbenzene	50.0	48	97.0	84 - 125
1,2-Dibromo-3-chloropropane	50.0	41	81.4	74 - 142
1,2-Dibromoethane	50.0	46	91.1	86 - 123
1,2-Dichlorobenzene	50.0	47	94.7	85 - 122
1,2-Dichloroethane	50.0	46	92.5	71 - 133
1,2-Dichloropropane	50.0	41	82.4	81 - 122
1,3,5-Trimethylbenzene	50.0	49	97.1	82 - 126
1,3-Dichlorobenzene	50.0	47	94.6	84 - 124
1,4-Dichlorobenzene	50.0	47	94.2	84 - 124
1,4-Dioxane	1050	390	37.2	10 - 228
2-Butanone	50.0	45	89.7	58 - 147
2-Hexanone	50.0	39	77.5	70 - 139
4-Methyl-2-pentanone	50.0	28	55.4 *	72 - 132
Acetone	50.0	32	64.8	36 - 155
Acrolein	50.0	49	98.6	10 - 238
Acrylonitrile	50.0	43	86.9	66 - 141
Benzene	50.0	49	97.7	77 - 127
Bromochloromethane	50.0	44	87.8	74 - 129
Bromodichloromethane	50.0	43	85.2	81 - 124
Bromoform	50.0	50	99.1	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31242	Laboratory ID:	BK31242-BS1
Preparation:	EPA 5030B/1311	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	50.0	46	92.4	32 - 177
Carbon disulfide	50.0	49	98.7	10 - 136
Carbon tetrachloride	50.0	48	95.1	66 - 143
Chlorobenzene	50.0	46	92.8	86 - 120
Chloroethane	50.0	54	107	51 - 142
Chloroform	50.0	46	91.6	76 - 131
Chloromethane	50.0	41	82.8	49 - 132
cis-1,2-Dichloroethylene	50.0	45	89.2	74 - 132
cis-1,3-Dichloropropylene	50.0	41	82.1	81 - 129
Cyclohexane	50.0	43	85.3	70 - 130
Dibromochloromethane	50.0	45	89.6	10 - 200
Dibromomethane	50.0	42	83.8	83 - 124
Dichlorodifluoromethane	50.0	42	83.8	28 - 158
Ethyl Benzene	50.0	46	92.3	84 - 125
Hexachlorobutadiene	50.0	43	86.5	83 - 133
Isopropylbenzene	50.0	47	95.0	81 - 127
Methyl acetate	50.0	39	78.7	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	45	89.7	74 - 131
Methylcyclohexane	50.0	42	84.5	70 - 130
Methylene chloride	50.0	43	86.1	57 - 141
n-Butylbenzene	50.0	46	92.7	80 - 130
n-Propylbenzene	50.0	47	93.1	74 - 136
o-Xylene	50.0	47	93.3	83 - 123
p- & m- Xylenes	100	87	87.0	82 - 128
p-Isopropyltoluene	50.0	48	95.8	85 - 125
sec-Butylbenzene	50.0	47	93.6	83 - 125
Styrene	50.0	43	85.9 *	86 - 126
tert-Butyl alcohol (TBA)	250	230	91.9	70 - 130
tert-Butylbenzene	50.0	47	94.5	80 - 127
Tetrachloroethylene	50.0	32	63.2 *	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Matrix: Soil
Batch: BK31242
Laboratory ID: BK31242-BSD1
Preparation: EPA 5030B/1311
Initial/Final: 5 mL / 5 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	47	94.2	2.34	30	75 - 129
1,1,1-Trichloroethane	50.0	46	92.1	0.807	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	48	96.9	3.44	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	49	98.3	3.10	30	58 - 146
1,1,2-Trichloroethane	50.0	45	90.0	1.07	30	83 - 123
1,1-Dichloroethane	50.0	44	87.3	1.36	30	75 - 130
1,1-Dichloroethylene	50.0	47	93.7	2.38	30	64 - 137
1,2,3-Trichlorobenzene	50.0	45	90.1	1.81	30	81 - 140
1,2,3-Trichloropropane	50.0	49	98.2	6.72	30	81 - 126
1,2,4-Trichlorobenzene	50.0	48	95.7	1.88	30	80 - 141
1,2,4-Trimethylbenzene	50.0	49	97.7	0.740	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	42	84.7	3.97	30	74 - 142
1,2-Dibromoethane	50.0	47	93.1	2.26	30	86 - 123
1,2-Dichlorobenzene	50.0	48	96.1	1.45	30	85 - 122
1,2-Dichloroethane	50.0	46	92.4	0.0649	30	71 - 133
1,2-Dichloropropane	50.0	43	85.7	3.97	30	81 - 122
1,3,5-Trimethylbenzene	50.0	50	99.6	2.50	30	82 - 126
1,3-Dichlorobenzene	50.0	48	95.7	1.18	30	84 - 124
1,4-Dichlorobenzene	50.0	48	95.8	1.66	30	84 - 124
1,4-Dioxane	1050	400	38.5	3.42	30	10 - 228
2-Butanone	50.0	45	90.0	0.334	30	58 - 147
2-Hexanone	50.0	39	78.2	0.873	30	70 - 139
4-Methyl-2-pentanone	50.0	29	57.4 *	3.54	30	72 - 132
Acetone	50.0	32	63.6	1.90	30	36 - 155
Acrolein	50.0	50	100	1.87	30	10 - 238
Acrylonitrile	50.0	44	88.3	1.62	30	66 - 141
Benzene	50.0	48	96.7	0.988	30	77 - 127
Bromochloromethane	50.0	43	86.3	1.79	30	74 - 129
Bromodichloromethane	50.0	43	86.5	1.44	30	81 - 124
Bromoform	50.0	50	100	1.40	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31242	Laboratory ID:	BK31242-BSD1
Preparation:	EPA 5030B/1311	Initial/Final:	5 mL / 5 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	50.0	48	96.3		4.13	30	32 - 177
Carbon disulfide	50.0	48	97.0		1.78	30	10 - 136
Carbon tetrachloride	50.0	47	93.5		1.70	30	66 - 143
Chlorobenzene	50.0	48	95.5		2.83	30	86 - 120
Chloroethane	50.0	54	107		0.261	30	51 - 142
Chloroform	50.0	45	90.9		0.789	30	76 - 131
Chloromethane	50.0	41	81.8		1.19	30	49 - 132
cis-1,2-Dichloroethylene	50.0	44	88.9		0.337	30	74 - 132
cis-1,3-Dichloropropylene	50.0	42	84.9		3.35	30	81 - 129
Cyclohexane	50.0	42	84.8		0.659	30	70 - 130
Dibromochloromethane	50.0	46	91.9		2.56	30	10 - 200
Dibromomethane	50.0	42	83.2		0.742	30	83 - 124
Dichlorodifluoromethane	50.0	43	85.1		1.47	30	28 - 158
Ethyl Benzene	50.0	47	94.5		2.27	30	84 - 125
Hexachlorobutadiene	50.0	45	89.0		2.92	30	83 - 133
Isopropylbenzene	50.0	49	97.1		2.23	30	81 - 127
Methyl acetate	50.0	39	77.8		1.20	30	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	44	87.9		2.05	30	74 - 131
Methylcyclohexane	50.0	43	85.8		1.48	30	70 - 130
Methylene chloride	50.0	42	83.6		2.99	30	57 - 141
n-Butylbenzene	50.0	47	94.6		2.05	30	80 - 130
n-Propylbenzene	50.0	48	95.7		2.78	30	74 - 136
o-Xylene	50.0	46	92.8		0.602	30	83 - 123
p- & m- Xylenes	100	88	87.6		0.768	30	82 - 128
p-Isopropyltoluene	50.0	49	97.1		1.29	30	85 - 125
sec-Butylbenzene	50.0	48	96.3		2.82	30	83 - 125
Styrene	50.0	43	85.9	*	0.00	30	86 - 126
tert-Butyl alcohol (TBA)	250	230	92.4		0.534	30	70 - 130
tert-Butylbenzene	50.0	48	96.2		1.85	30	80 - 127
Tetrachloroethylene	50.0	32	64.3	*	1.76	30	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31257	Laboratory ID:	BK31257-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	42	84.5	75 - 129
1,1,1-Trichloroethane	50.0	41	82.3	71 - 137
1,1,2,2-Tetrachloroethane	50.0	45	90.5	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	44	88.2	58 - 146
1,1,2-Trichloroethane	50.0	42	83.6	83 - 123
1,1-Dichloroethane	50.0	40	79.3	75 - 130
1,1-Dichloroethylene	50.0	42	84.5	64 - 137
1,2,3-Trichlorobenzene	50.0	44	87.0	81 - 140
1,2,3-Trichloropropane	50.0	46	92.5	81 - 126
1,2,4-Trichlorobenzene	50.0	45	90.9	80 - 141
1,2,4-Trimethylbenzene	50.0	44	87.4	84 - 125
1,2-Dibromo-3-chloropropane	50.0	40	79.7	74 - 142
1,2-Dibromoethane	50.0	45	89.3	86 - 123
1,2-Dichlorobenzene	50.0	44	87.0	85 - 122
1,2-Dichloroethane	50.0	44	88.6	71 - 133
1,2-Dichloropropane	50.0	39	77.6 *	81 - 122
1,3,5-Trimethylbenzene	50.0	44	88.7	82 - 126
1,3-Dichlorobenzene	50.0	43	86.9	84 - 124
1,4-Dichlorobenzene	50.0	44	87.2	84 - 124
1,4-Dioxane	1050	360	34.3	10 - 228
2-Butanone	50.0	42	84.1	58 - 147
2-Hexanone	50.0	38	75.4	70 - 139
4-Methyl-2-pentanone	50.0	27	54.5 *	72 - 132
Acetone	50.0	31	62.4	36 - 155
Acrolein	50.0	43	85.6	10 - 238
Acrylonitrile	50.0	41	81.1	66 - 141
Benzene	50.0	42	83.2	77 - 127
Bromochloromethane	50.0	39	77.8	74 - 129
Bromodichloromethane	50.0	41	81.4	81 - 124
Bromoform	50.0	48	95.8	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31257	Laboratory ID:	BK31257-BS1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	50.0	26	52.0	32 - 177
Carbon disulfide	50.0	41	82.3	10 - 136
Carbon tetrachloride	50.0	43	85.0	66 - 143
Chlorobenzene	50.0	42	84.8 *	86 - 120
Chloroethane	50.0	31	62.0	51 - 142
Chloroform	50.0	41	82.3	76 - 131
Chloromethane	50.0	33	66.0	49 - 132
cis-1,2-Dichloroethylene	50.0	41	81.2	74 - 132
cis-1,3-Dichloropropylene	50.0	39	77.5 *	81 - 129
Cyclohexane	50.0	37	74.1	70 - 130
Dibromochloromethane	50.0	44	88.1	10 - 200
Dibromomethane	50.0	41	81.2 *	83 - 124
Dichlorodifluoromethane	50.0	30	61.0	28 - 158
Ethyl Benzene	50.0	41	82.8 *	84 - 125
Hexachlorobutadiene	50.0	43	86.8	83 - 133
Isopropylbenzene	50.0	45	90.5	81 - 127
Methyl acetate	50.0	38	75.6	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	42	84.9	74 - 131
Methylcyclohexane	50.0	39	77.6	70 - 130
Methylene chloride	50.0	39	77.6	57 - 141
n-Butylbenzene	50.0	41	81.4	80 - 130
n-Propylbenzene	50.0	43	86.2	74 - 136
o-Xylene	50.0	41	82.4 *	83 - 123
p- & m- Xylenes	100	75	74.5 *	82 - 128
p-Isopropyltoluene	50.0	43	85.7	85 - 125
sec-Butylbenzene	50.0	43	85.6	83 - 125
Styrene	50.0	37	73.8 *	86 - 126
tert-Butyl alcohol (TBA)	250	220	87.5	70 - 130
tert-Butylbenzene	50.0	44	87.7	80 - 127
Tetrachloroethylene	50.0	30	60.3 *	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31257	Laboratory ID:	BK31257-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	50.0	44	88.1	4.13	30	75 - 129
1,1,1-Trichloroethane	50.0	43	87.0	5.55	30	71 - 137
1,1,2,2-Tetrachloroethane	50.0	52	103	13.3	30	79 - 129
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	50.0	45	90.9	3.01	30	58 - 146
1,1,2-Trichloroethane	50.0	46	91.0	8.43	30	83 - 123
1,1-Dichloroethane	50.0	42	84.2	6.04	30	75 - 130
1,1-Dichloroethylene	50.0	44	88.2	4.28	30	64 - 137
1,2,3-Trichlorobenzene	50.0	47	94.0	7.69	30	81 - 140
1,2,3-Trichloropropane	50.0	55	110	17.5	30	81 - 126
1,2,4-Trichlorobenzene	50.0	48	96.0	5.43	30	80 - 141
1,2,4-Trimethylbenzene	50.0	45	89.5	2.33	30	84 - 125
1,2-Dibromo-3-chloropropane	50.0	51	102	24.4	30	74 - 142
1,2-Dibromoethane	50.0	50	99.5	10.8	30	86 - 123
1,2-Dichlorobenzene	50.0	46	91.3	4.80	30	85 - 122
1,2-Dichloroethane	50.0	49	98.3	10.4	30	71 - 133
1,2-Dichloropropane	50.0	40	79.8 *	2.82	30	81 - 122
1,3,5-Trimethylbenzene	50.0	45	89.9	1.34	30	82 - 126
1,3-Dichlorobenzene	50.0	45	89.1	2.50	30	84 - 124
1,4-Dichlorobenzene	50.0	45	89.7	2.78	30	84 - 124
1,4-Dioxane	1050	560	53.1	43.0 *	30	10 - 228
2-Butanone	50.0	57	115	30.9 *	30	58 - 147
2-Hexanone	50.0	49	97.6	25.7	30	70 - 139
4-Methyl-2-pentanone	50.0	34	67.2 *	21.0	30	72 - 132
Acetone	50.0	42	83.6	29.0	30	36 - 155
Acrolein	50.0	55	111	25.7	30	10 - 238
Acrylonitrile	50.0	55	109	29.7	30	66 - 141
Benzene	50.0	44	88.9	6.58	30	77 - 127
Bromochloromethane	50.0	44	87.1	11.2	30	74 - 129
Bromodichloromethane	50.0	41	82.5	1.32	30	81 - 124
Bromoform	50.0	55	110	13.6	30	80 - 136

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31257	Laboratory ID:	BK31257-BSD1
Preparation:	EPA 5035A	Initial/Final:	5 g / 5 ml

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	50.0	32	64.2	20.9	30	32 - 177
Carbon disulfide	50.0	44	87.3	5.92	30	10 - 136
Carbon tetrachloride	50.0	45	90.2	5.93	30	66 - 143
Chlorobenzene	50.0	44	87.5	3.11	30	86 - 120
Chloroethane	50.0	35	70.1	12.2	30	51 - 142
Chloroform	50.0	44	87.7	6.38	30	76 - 131
Chloromethane	50.0	39	77.3	15.8	30	49 - 132
cis-1,2-Dichloroethylene	50.0	43	85.5	5.16	30	74 - 132
cis-1,3-Dichloropropylene	50.0	40	79.9 *	3.13	30	81 - 129
Cyclohexane	50.0	39	78.2	5.36	30	70 - 130
Dibromochloromethane	50.0	47	94.3	6.77	30	10 - 200
Dibromomethane	50.0	43	85.8	5.46	30	83 - 124
Dichlorodifluoromethane	50.0	34	68.0	10.9	30	28 - 158
Ethyl Benzene	50.0	43	85.5	3.23	30	84 - 125
Hexachlorobutadiene	50.0	44	88.7	2.16	30	83 - 133
Isopropylbenzene	50.0	45	89.4	1.25	30	81 - 127
Methyl acetate	50.0	50	99.6	27.4	30	41 - 143
Methyl tert-butyl ether (MTBE)	50.0	48	95.5	11.7	30	74 - 131
Methylcyclohexane	50.0	39	77.1	0.698	30	70 - 130
Methylene chloride	50.0	42	84.6	8.61	30	57 - 141
n-Butylbenzene	50.0	42	83.0	1.90	30	80 - 130
n-Propylbenzene	50.0	43	86.2	0.00	30	74 - 136
o-Xylene	50.0	44	87.1	5.57	30	83 - 123
p- & m- Xylenes	100	77	76.6 *	2.80	30	82 - 128
p-Isopropyltoluene	50.0	43	86.7	1.14	30	85 - 125
sec-Butylbenzene	50.0	43	86.8	1.42	30	83 - 125
Styrene	50.0	39	77.2 *	4.50	30	86 - 126
tert-Butyl alcohol (TBA)	250	310	122	33.2 *	30	70 - 130
tert-Butylbenzene	50.0	44	88.7	1.20	30	80 - 127
Tetrachloroethylene	50.0	31	61.3 *	1.58	30	80 - 129

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31296	Laboratory ID:	BK31296-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	4.6	46.0	43 - 168
Carbon disulfide	10.0	9.4	93.8	68 - 146
Carbon tetrachloride	10.0	10	101	77 - 141
Chlorobenzene	10.0	9.6	96.1	88 - 120
Chloroethane	10.0	13	128	65 - 136
Chloroform	10.0	9.7	97.4	82 - 128
Chloromethane	10.0	10	100	43 - 155
cis-1,2-Dichloroethylene	10.0	9.9	98.9	83 - 129
cis-1,3-Dichloropropylene	10.0	8.8	88.5	80 - 131
Cyclohexane	10.0	9.7	97.0	63 - 149
Dibromochloromethane	10.0	9.2	92.5	80 - 130
Dibromomethane	10.0	9.4	93.7	72 - 134
Dichlorodifluoromethane	10.0	13	135	44 - 144
Ethyl Benzene	10.0	10	99.8	80 - 131
Hexachlorobutadiene	10.0	7.8	78.3	67 - 146
Isopropylbenzene	10.0	8.9	89.2	76 - 140
Methyl acetate	10.0	8.2	82.2	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.2	91.5	76 - 135
Methylcyclohexane	10.0	8.9	89.1	72 - 143
Methylene chloride	10.0	9.7	97.1	55 - 137
n-Butylbenzene	10.0	8.3	83.4	79 - 132
n-Propylbenzene	10.0	8.9	89.2	78 - 133
o-Xylene	10.0	9.8	98.2	78 - 130
p- & m- Xylenes	20.0	21	103	77 - 133
p-Isopropyltoluene	10.0	9.1	91.3	81 - 136
sec-Butylbenzene	10.0	8.9	89.2	79 - 137
Styrene	10.0	9.9	99.3	67 - 132
tert-Butyl alcohol (TBA)	50.0	48	96.6	25 - 162
tert-Butylbenzene	10.0	8.4	84.5	77 - 138
Tetrachloroethylene	10.0	4.6	46.3 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31296	Laboratory ID:	BK31296-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	10	100	80 - 127
trans-1,2-Dichloroethylene	10.0	9.6	96.1	80 - 132
trans-1,3-Dichloropropylene	10.0	9.8	97.5	78 - 131
trans-1,4-dichloro-2-butene	10.0	10	100	63 - 141
Trichloroethylene	10.0	8.8	87.5	82 - 128
Trichlorofluoromethane	10.0	15	155 *	67 - 139
Vinyl Chloride	10.0	12	118	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31296	Laboratory ID:	BK31296-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	5.1	50.8		9.92	30	43 - 168
Carbon disulfide	10.0	9.3	93.0		0.857	30	68 - 146
Carbon tetrachloride	10.0	10	101		0.199	30	77 - 141
Chlorobenzene	10.0	9.6	95.9		0.208	30	88 - 120
Chloroethane	10.0	12	122		5.28	30	65 - 136
Chloroform	10.0	9.9	98.9		1.53	30	82 - 128
Chloromethane	10.0	9.1	91.3		9.30	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10	100		1.21	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.2	92.1		3.99	30	80 - 131
Cyclohexane	10.0	9.6	96.0		1.04	30	63 - 149
Dibromochloromethane	10.0	9.5	94.7		2.35	30	80 - 130
Dibromomethane	10.0	9.7	96.8		3.25	30	72 - 134
Dichlorodifluoromethane	10.0	13	130		3.63	30	44 - 144
Ethyl Benzene	10.0	9.9	99.0		0.805	30	80 - 131
Hexachlorobutadiene	10.0	8.0	79.5		1.52	30	67 - 146
Isopropylbenzene	10.0	8.9	89.0		0.224	30	76 - 140
Methyl acetate	10.0	8.5	85.1		3.47	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.8	97.8		6.66	30	76 - 135
Methylcyclohexane	10.0	9.1	90.7		1.78	30	72 - 143
Methylene chloride	10.0	9.9	98.9		1.84	30	55 - 137
n-Butylbenzene	10.0	8.6	85.7		2.72	30	79 - 132
n-Propylbenzene	10.0	8.9	89.2		0.00	30	78 - 133
o-Xylene	10.0	9.8	97.9		0.306	30	78 - 130
p- & m- Xylenes	20.0	21	103		0.146	30	77 - 133
p-Isopropyltoluene	10.0	9.1	91.4		0.109	30	81 - 136
sec-Butylbenzene	10.0	9.0	90.4		1.34	30	79 - 137
Styrene	10.0	9.9	98.8		0.505	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	50	99.2		2.66	30	25 - 162
tert-Butylbenzene	10.0	8.6	85.8		1.53	30	77 - 138
Tetrachloroethylene	10.0	4.6	45.9	*	0.868	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31296	Laboratory ID:	BK31296-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	10.0	10	99.7		0.500	30	80 - 127
trans-1,2-Dichloroethylene	10.0	9.7	96.8		0.726	30	80 - 132
trans-1,3-Dichloropropylene	10.0	9.9	98.7		1.22	30	78 - 131
trans-1,4-dichloro-2-butene	10.0	9.9	98.9		1.21	30	63 - 141
Trichloroethylene	10.0	8.9	88.9		1.59	30	82 - 128
Trichlorofluoromethane	10.0	15	147	*	4.96	30	67 - 139
Vinyl Chloride	10.0	11	109		8.00	30	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K0980
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water	Laboratory ID:	BK31296-BLK1	File ID:	V841400.D
Prepared:	11/20/23 09:00	Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Analyzed:	11/20/23 11:24	Instrument:	VOA No. 8		
Batch:	BK31296	Sequence:	S3K2125	Calibration:	SK30015

CAS NO.	COMPOUND	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
75-35-4	1,1-Dichloroethylene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.37	J
96-18-4	1,2,3-Trichloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
123-91-1	1,4-Dioxane	40	U
78-93-3	2-Butanone	0.50	U
591-78-6	2-Hexanone	0.50	U
108-10-1	4-Methyl-2-pentanone	0.50	U
67-64-1	Acetone	2.0	U
107-02-8	Acrolein	0.50	U
107-13-1	Acrylonitrile	0.50	U
71-43-2	Benzene	0.50	U
74-97-5	Bromochloromethane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
75-25-2	Bromoform	0.50	U

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**
EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2022
Instrument: MS VOA 2
Calibration: SK30029

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (S3K2022-CCV1)			Lab File ID: V2625113.D			Analyzed: 11/19/23 12:35			
ISTD: Fluorobenzene	152901	5.958				50 - 200		+/-0.17	
ISTD: Chlorobenzene-d5	630741	9.019				50 - 200		+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	302569	12.03				50 - 200		+/-0.17	
LCS (BK31242-BS1)			Lab File ID: V2625114.D			Analyzed: 11/19/23 13:10			
ISTD: Fluorobenzene	158186	5.958	152901	5.958	103	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	657661	9.019	630741	9.019	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	319550	12.03	302569	12.03	106	50 - 200	0.0000	+/-0.17	
LCS Dup (BK31242-BSD1)			Lab File ID: V2625115.D			Analyzed: 11/19/23 13:38			
ISTD: Fluorobenzene	160621	5.958	152901	5.958	105	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	656742	9.019	630741	9.019	104	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	314158	12.03	302569	12.03	104	50 - 200	0.0000	+/-0.17	
Blank (BK31242-BLK1)			Lab File ID: V2625116.D			Analyzed: 11/19/23 14:06			
ISTD: Fluorobenzene	150621	5.958	152901	5.958	99	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	603878	9.019	630741	9.019	96	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	244964	12.03	302569	12.03	81	50 - 200	0.0000	+/-0.17	
Blank (BK31242-BLK2)			Lab File ID: V2625117.D			Analyzed: 11/19/23 14:33			
ISTD: Fluorobenzene	148931	5.958	152901	5.958	97	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	605791	9.019	630741	9.019	96	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	243435	12.03	302569	12.03	80	50 - 200	0.0000	+/-0.17	
23SP5 (25-27.5 ft) (23K0980-04)			Lab File ID: V2625118.D			Analyzed: 11/19/23 15:01			
ISTD: Fluorobenzene	145925	5.958	152901	5.958	95	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	600683	9.019	630741	9.019	95	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	250086	12.03	302569	12.03	83	50 - 200	0.0000	+/-0.17	
23SP6 (22.5-25 ft) (23K0980-08)			Lab File ID: V2625129.D			Analyzed: 11/19/23 20:32			
ISTD: Fluorobenzene	232034	5.958	152901	5.958	152	50 - 200	0.0000	+/-0.17	
ISTD: Chlorobenzene-d5	903724	9.019	630741	9.019	143	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	373450	12.03	302569	12.03	123	50 - 200	0.0000	+/-0.17	
23SP5 (12.5-15 ft) (23K0980-02)			Lab File ID: V2625130.D			Analyzed: 11/19/23 21:00			
ISTD: Fluorobenzene	710149	5.964	152901	5.958	464	50 - 200	0.0060	+/-0.17	*
ISTD: Chlorobenzene-d5	959122	9.019	630741	9.019	152	50 - 200	0.0000	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	538711	12.03	302569	12.03	178	50 - 200	0.0000	+/-0.17	
23SP5 (15-17.5 ft) (23K0980-03)			Lab File ID: V2625131.D			Analyzed: 11/19/23 21:27			
ISTD: Fluorobenzene	399390	5.958	152901	5.958	261	50 - 200	0.0000	+/-0.17	*
ISTD: Chlorobenzene-d5	993578	9.013	630741	9.019	158	50 - 200	-0.0060	+/-0.17	
ISTD: 1,2-Dichlorobenzene-d4	501386	12.03	302569	12.03	166	50 - 200	0.0000	+/-0.17	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30015
Instrument: VOA No. 8
Calibration Date: 11/03/23 08:21

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.252487	16.09627	8.937625	1.502891E-02		0.9994804	0.99	
1,1,1-Trichloroethane	1.676194	12.47571	5.173125	4.838367E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4083268	3.235743	10.28825	2.687498E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.9052299	5.663156	3.00525	0.1026015			SPCC (0.1)	
1,1,2-Trichloroethane	0.1638889	7.168131	7.84425	3.410324E-02			SPCC (0.1)	
1,1-Dichloroethane	1.71564	10.89537	4.19	1.543197E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.319827	7.391632	3.039375	9.240386E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.377977	12.21371	5.320125	5.070292E-02			20	
1,2,3-Trichlorobenzene	0.3191153	6.390812	14.222	1.572699E-02			20	
1,2,3-Trichloropropane	0.1229479	11.51619	10.33525	2.783048E-02			20	
1,2,4,5-Tetramethylbenzene	1.76123	3.678628	12.606	1.890681E-02			20	
1,2,4-Trichlorobenzene	0.4262647	8.03048	13.6465	2.035218E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.304133	6.394563	10.93563	1.679805E-02			20	
1,2-Dibromo-3-chloropropane	6.500658E-02	9.461586	12.753	2.251016E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1535879	8.414096	8.376	2.429507E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.048737	8.569552	11.82787	9.896169E-03			SPCC (0.4)	
1,2-Dichloroethane	0.9439081	9.113743	5.591625	5.066179E-02			SPCC (0.1)	
1,2-Dichloropropane	0.237461	7.037048	6.380375	5.044474E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.365377	5.541924	10.51	2.653807E-02			20	
1,3-Dichlorobenzene	1.215782	13.00782	11.294	6.619869E-03			SPCC (0.6)	
1,3-Dichloropropane	0.28404	7.461732	8.01125	1.482835E-02			20	
1,4-Dichlorobenzene	1.195445	11.38534	11.39713	2.700964E-02			SPCC (0.5)	
1,4-Dioxane	1.12822E-03	28.08788	6.51725	0.0441906		0.9989541	0.99	
2,2-Dichloropropane	1.519586	7.086546	4.7085	6.176185E-02			20	
2-Butanone	6.586937E-02	22.24638	4.763429	8.055623E-02		0.9993472	SPCC (0.1)	
2-Chlorotoluene	2.404439	7.792115	10.44687	2.231395E-02			20	
2-Hexanone	9.722319E-02	7.063256	8.057625	4.675217E-02			SPCC (0.1)	
4-Chlorotoluene	2.059142	4.941344	10.57125	0.0174712			20	
4-Methyl-2-pentanone	0.1237697	7.445146	7.2125	3.829822E-02			SPCC (0.1)	
Acetone	0.2617927	47.91182	3.145	8.380614E-02		0.9992991	SPCC (0.1)	
Acrolein	5.997976E-02	4.101672	2.9925	4.764323E-03			20	
Acrylonitrile	0.1307435	5.561161	3.823125	6.920304E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30029
Instrument: MS VOA 2
Calibration Date: 11/15/23 08:48

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2284776	17.2285	9.135571	2.428071E-02		0.9999602	0.99	
1,1,1-Trichloroethane	1.443856	13.5912	5.324	9.580319E-03			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.522015	9.874703	10.49486	2.399327E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.7879996	5.482327	3.093857	7.237036E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.2033539	7.058197	8.032714	3.456889E-02			SPCC (0.1)	
1,1-Dichloroethane	1.502925	7.345577	4.319857	7.406627E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.134733	2.68454	3.127857	9.677187E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.183152	11.74429	5.474286	6.271302E-02			20	
1,2,3-Trichlorobenzene	0.7655304	6.360404	14.46214	9.41326E-03			20	
1,2,3-Trichloropropane	0.1663692	6.817383	10.549	1.268363E-02			20	
1,2,4,5-Tetramethylbenzene	1.911976	10.10047	12.829	9.160069E-03			20	
1,2,4-Trichlorobenzene	0.7269921	8.332672	13.88014	2.554752E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	1.700674	3.538099	11.14771	0.0257829			20	
1,2-Dibromo-3-chloropropane	0.1238738	10.0028	12.98443	0.0298201			SPCC (0.05)	
1,2-Dibromoethane	0.2003971	7.653732	8.573857	8.449527E-03			SPCC (0.1)	
1,2-Dichlorobenzene	0.9629007	6.398932	12.04943	1.437824E-02			SPCC (0.4)	
1,2-Dichloroethane	1.136407	8.85514	5.757	2.152194E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2287833	8.083802	6.556	1.716602E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	1.681215	4.221224	10.71957	1.120626E-02			20	
1,3-Dichlorobenzene	1.000777	6.18815	11.512	2.591121E-02			SPCC (0.6)	
1,3-Dichloropropane	0.3389043	7.125113	8.208	1.960801E-02			20	
1,4-Dichlorobenzene	0.9928868	5.584419	11.616	1.486939E-02			SPCC (0.5)	
1,4-Dioxane	2.928221E-03	10.14926	6.795429	4.733688E-02			20	
2,2-Dichloropropane	1.37683	8.052759	4.853286	6.159735E-02			20	
2-Butanone	0.1254416	5.869395	4.995	9.805333E-03			SPCC (0.1)	
2-Chlorotoluene	1.689657	4.290256	10.65871	7.203592E-03			20	
2-Hexanone	0.1856889	6.385966	8.311572	1.587444E-02			SPCC (0.1)	
4-Chlorotoluene	1.45578	4.675155	10.78143	2.585612E-02			20	
4-Methyl-2-pentanone	0.3669302	4.358309	7.464	1.059892E-02			SPCC (0.1)	
Acetone	0.394662	8.699015	3.327571	9.617104E-02			SPCC (0.1)	
Acrolein	0.1322031	17.635	3.123429	0.1203746		0.9996572	0.99	
Acrylonitrile	0.3347	5.838134	3.977857	5.855968E-02			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.04	-9.6	30.00
1,1,1-Trichloroethane	10.0	9.87	-1.3	30.00
1,1,2,2-Tetrachloroethane	10.0	10.2	2.1	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	2.1	30.00
1,1,2-Trichloroethane	10.0	9.60	-4.0	30.00
1,1-Dichloroethane	10.0	9.18	-8.2	30.00
1,1-Dichloroethylene	10.0	10.0	0.2	30.00
1,2,3-Trichlorobenzene	10.0	8.85	-11.5	30.00
1,2,3-Trichloropropane	10.0	10.0	0.2	30.00
1,2,4-Trichlorobenzene	10.0	9.01	-9.9	30.00
1,2,4-Trimethylbenzene	10.0	10.1	1.1	30.00
1,2-Dibromo-3-chloropropane	10.0	10.2	2.4	30.00
1,2-Dibromoethane	10.0	9.89	-1.1	30.00
1,2-Dichlorobenzene	10.0	9.60	-4.0	30.00
1,2-Dichloroethane	10.0	9.75	-2.5	30.00
1,2-Dichloropropane	10.0	9.75	-2.5	30.00
1,3,5-Trimethylbenzene	10.0	9.99	-0.1	30.00
1,3-Dichlorobenzene	10.0	9.49	-5.1	30.00
1,4-Dichlorobenzene	10.0	9.40	-6.0	30.00
1,4-Dioxane	210	173	-17.4	30.00
2-Butanone	10.0	9.03	-9.7	30.00
2-Hexanone	10.0	8.14	-18.6	30.00
4-Methyl-2-pentanone	10.0	9.01	-9.9	30.00
Acetone	10.0	16.2	61.8 *	30.00
Acrolein	10.0	11.1	10.6	30.00
Acrylonitrile	10.0	9.86	-1.4	30.00
Benzene	10.0	9.96	-0.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.88	-1.2	30.00
sec-Butylbenzene	10.0	9.82	-1.8	30.00
Styrene	10.0	9.86	-1.4	30.00
tert-Butyl alcohol (TBA)	50.0	47.9	-4.2	30.00
tert-Butylbenzene	10.0	9.77	-2.3	30.00
Tetrachloroethylene	10.0	4.90	-51.0 *	30.00
Toluene	10.0	9.94	-0.6	30.00
trans-1,2-Dichloroethylene	10.0	9.65	-3.5	30.00
trans-1,3-Dichloropropylene	10.0	9.46	-5.4	30.00
trans-1,4-dichloro-2-butene	10.0	9.28	-7.2	30.00
Trichloroethylene	10.0	9.52	-4.8	30.00
Trichlorofluoromethane	10.0	10.9	8.8	30.00
Vinyl Chloride	10.0	10.8	7.8	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30029
Laboratory ID: S3K1625-SCV1
Sequence: S3K1625
Standard ID: S23K221

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	50.0	46.9	-6.1	30.00
1,1,1-Trichloroethane	50.0	44.9	-10.3	30.00
1,1,2,2-Tetrachloroethane	50.0	53.3	6.5	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0	48.8	-2.5	30.00
1,1,2-Trichloroethane	50.0	46.8	-6.4	30.00
1,1-Dichloroethane	50.0	46.0	-8.0	30.00
1,1-Dichloroethylene	50.0	50.5	1.0	30.00
1,2,3-Trichlorobenzene	50.0	47.6	-4.7	30.00
1,2,3-Trichloropropane	50.0	52.1	4.2	30.00
1,2,4-Trichlorobenzene	50.0	48.5	-3.1	30.00
1,2,4-Trimethylbenzene	50.0	51.3	2.5	30.00
1,2-Dibromo-3-chloropropane	50.0	48.4	-3.1	30.00
1,2-Dibromoethane	50.0	48.8	-2.4	30.00
1,2-Dichlorobenzene	50.0	48.0	-4.1	30.00
1,2-Dichloroethane	50.0	46.8	-6.5	30.00
1,2-Dichloropropane	50.0	48.4	-3.2	30.00
1,3,5-Trimethylbenzene	50.0	52.3	4.5	30.00
1,3-Dichlorobenzene	50.0	48.1	-3.8	30.00
1,4-Dichlorobenzene	50.0	47.8	-4.4	30.00
1,4-Dioxane	1050	448	-57.3 *	30.00
2-Butanone	50.0	45.6	-8.7	30.00
2-Hexanone	50.0	45.9	-8.2	30.00
4-Methyl-2-pentanone	50.0	33.2	-33.5 *	30.00
Acetone	50.0	33.1	-33.8 *	30.00
Acrolein	50.0	35.5	-28.9	30.00
Acrylonitrile	50.0	46.6	-6.7	30.00
Benzene	50.0	47.8	-4.3	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30029
Laboratory ID: S3K1625-SCV1
Sequence: S3K1625
Standard ID: S23K221

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
Bromochloromethane	50.0	46.6	-6.8	30.00
Bromodichloromethane	50.0	48.4	-3.3	30.00
Bromoform	50.0	50.5	1.0	30.00
Bromomethane	50.0	54.5	9.0	30.00
Carbon disulfide	50.0	51.7	3.4	30.00
Carbon tetrachloride	50.0	46.1	-7.8	30.00
Chlorobenzene	50.0	47.9	-4.2	30.00
Chloroethane	50.0	50.0	-0.06	30.00
Chloroform	50.0	45.1	-9.8	30.00
Chloromethane	50.0	57.8	15.6	30.00
cis-1,2-Dichloroethylene	50.0	46.1	-7.8	30.00
cis-1,3-Dichloropropylene	50.0	46.1	-7.7	30.00
Cyclohexane	50.0	44.5	-11.0	30.00
Dibromochloromethane	50.0	48.4	-3.2	30.00
Dibromomethane	50.0	46.0	-7.9	30.00
Dichlorodifluoromethane	50.0	68.0	35.9 *	30.00
Ethyl Benzene	50.0	48.4	-3.2	30.00
Hexachlorobutadiene	50.0	48.5	-2.9	30.00
Isopropylbenzene	50.0	53.1	6.1	30.00
Methyl acetate	50.0	44.4	-11.1	30.00
Methyl tert-butyl ether (MTBE)	50.0	44.7	-10.7	30.00
Methylcyclohexane	50.0	47.2	-5.6	30.00
Methylene chloride	50.0	46.6	-6.8	30.00
n-Butylbenzene	50.0	48.4	-3.2	30.00
n-Propylbenzene	50.0	51.9	3.8	30.00
o-Xylene	50.0	47.8	-4.4	30.00
p- & m- Xylenes	100	87.1	-12.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30029
Laboratory ID: S3K1625-SCV1
Sequence: S3K1625
Standard ID: S23K221

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	50.0	49.4	-1.1	30.00
sec-Butylbenzene	50.0	50.1	0.2	30.00
Styrene	50.0	42.3	-15.4	30.00
tert-Butyl alcohol (TBA)	250	218	-13.0	30.00
tert-Butylbenzene	50.0	51.0	1.9	30.00
Tetrachloroethylene	50.0	32.7	-34.7 *	30.00
Toluene	50.0	48.5	-3.1	30.00
trans-1,2-Dichloroethylene	50.0	47.6	-4.8	30.00
trans-1,3-Dichloropropylene	50.0	46.3	-7.4	30.00
trans-1,4-dichloro-2-butene	50.0	51.9	3.7	30.00
Trichloroethylene	50.0	48.8	-2.4	30.00
Trichlorofluoromethane	50.0	52.1	4.2	30.00
Vinyl Chloride	50.0	53.9	7.9	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	MS VOA 2	Calibration:	SK30029
Lab File ID:	V2625113.D	Calibration Date:	11/15/23 08:48
Sequence:	S3K2022	Injection Date:	11/19/23
Lab Sample ID:	S3K2022-CCV1	Injection Time:	12:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	50.0	45.1	0.2284776	0.2016834		-9.8	20	
1,1,1-Trichloroethane	A	50.0	48.1	1.443856	1.388755	0.1	-3.8	20	
1,1,2,2-Tetrachloroethane	A	50.0	44.5	0.522015	0.4642875	0.3	-11.1	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	50.6	0.7879996	0.7968555	0.1	1.1	20	
1,1,2-Trichloroethane	A	50.0	43.7	0.2033539	0.1776751	0.1	-12.6	20	
1,1-Dichloroethane	A	50.0	46.8	1.502925	1.406577	0.2	-6.4	20	
1,1-Dichloroethylene	A	50.0	47.9	1.134733	1.087462	0.1	-4.2	20	
1,2,3-Trichlorobenzene	A	50.0	42.4	0.7655304	0.6493197		-15.2	20	
1,2,3-Trichloropropane	A	50.0	46.4	0.1663692	0.1543846		-7.2	20	
1,2,4-Trichlorobenzene	A	50.0	44.3	0.7269921	0.6436813	0.2	-11.5	20	
1,2,4-Trimethylbenzene	A	50.0	46.8	1.700674	1.593085		-6.3	20	
1,2-Dibromo-3-chloropropane	A	50.0	39.6	0.1238738	9.798757E-02	0.05	-20.9	20	*
1,2-Dibromoethane	A	50.0	45.4	0.2003971	0.1818877	0.1	-9.2	20	
1,2-Dichlorobenzene	A	50.0	48.0	0.9629007	0.9240967	0.4	-4.0	20	
1,2-Dichloroethane	A	50.0	46.3	1.136407	1.052249	0.1	-7.4	20	
1,2-Dichloropropane	A	50.0	41.5	0.2287833	0.1898767	0.1	-17.0	20	
1,3,5-Trimethylbenzene	A	50.0	47.7	1.681215	1.60528		-4.5	20	
1,3-Dichlorobenzene	A	50.0	47.0	1.000777	0.9408003	0.6	-6.0	20	
1,4-Dichlorobenzene	A	50.0	47.1	0.9928868	0.9345604	0.5	-5.9	20	
1,4-Dioxane	A	1000	829	2.928221E-03	2.428572E-03		-17.1	20	
2-Butanone	A	50.0	46.7	0.1254416	0.1171019	0.1	-6.6	20	
2-Hexanone	A	50.0	39.3	0.1856889	0.1460219	0.1	-21.4	20	*
4-Methyl-2-pentanone	A	50.0	35.9	0.3669302	0.2631841	0.1	-28.3	20	*
Acetone	A	50.0	41.6	0.394662	0.3279377	0.1	-16.9	20	
Acrolein	A	50.0	50.0	0.1322031	0.1283903		-0.1	20	
Acrylonitrile	A	50.0	43.1	0.3347	0.288677		-13.8	20	
Benzene	A	50.0	47.9	3.516534	3.370861	0.5	-4.1	20	
Bromochloromethane	A	50.0	43.9	0.6828823	0.5996429		-12.2	20	
Bromodichloromethane	A	50.0	42.8	0.3247678	0.2779144	0.2	-14.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	MS VOA 2	Calibration:	SK30029
Lab File ID:	V2625113.D	Calibration Date:	11/15/23 08:48
Sequence:	S3K2022	Injection Date:	11/19/23
Lab Sample ID:	S3K2022-CCV1	Injection Time:	12:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	48.0	1.496178	1.437292		-3.9	20	
Tetrachloroethylene	A	50.0	39.0	0.3622082	0.2750543	0.2	-22.0	20	*
Toluene	A	50.0	44.4	1.024925	0.9106591	0.4	-11.1	20	
trans-1,2-Dichloroethylene	A	50.0	46.6	1.144373	1.067508	0.1	-6.7	20	
trans-1,3-Dichloropropylene	A	50.0	42.4	0.3650795	0.3096168	0.1	-15.2	20	
trans-1,4-dichloro-2-butene	A	50.0	44.0	0.6602414	0.5815004		-11.9	20	
Trichloroethylene	A	50.0	43.1	0.2436389	0.2102194	0.2	-13.7	20	
Trichlorofluoromethane	A	50.0	57.8	3.08065	3.558636	0.1	15.5	20	
Vinyl Chloride	A	50.0	47.5	1.106092	1.050235	0.1	-5.0	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	MS VOA 2	Calibration:	SK30029
Lab File ID:	V2625137.D	Calibration Date:	11/15/23 08:48
Sequence:	S3K2123	Injection Date:	11/20/23
Lab Sample ID:	S3K2123-CCV1	Injection Time:	10:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	50.0	47.2	0.2284776	0.211572		-5.5	20	
1,1,1-Trichloroethane	A	50.0	50.0	1.443856	1.443888	0.1	0.002	20	
1,1,2,2-Tetrachloroethane	A	50.0	45.6	0.522015	0.4755672	0.3	-8.9	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	50.0	51.6	0.7879996	0.8125206	0.1	3.1	20	
1,1,2-Trichloroethane	A	50.0	46.0	0.2033539	0.1872448	0.1	-7.9	20	
1,1-Dichloroethane	A	50.0	47.6	1.502925	1.431757	0.2	-4.7	20	
1,1-Dichloroethylene	A	50.0	50.3	1.134733	1.141562	0.1	0.6	20	
1,2,3-Trichlorobenzene	A	50.0	49.3	0.7655304	0.7544978		-1.4	20	
1,2,3-Trichloropropane	A	50.0	46.5	0.1663692	0.1547683		-7.0	20	
1,2,4-Trichlorobenzene	A	50.0	52.0	0.7269921	0.7560261	0.2	4.0	20	
1,2,4-Trimethylbenzene	A	50.0	47.2	1.700674	1.606707		-5.5	20	
1,2-Dibromo-3-chloropropane	A	50.0	40.9	0.1238738	0.1012542	0.05	-18.3	20	
1,2-Dibromoethane	A	50.0	47.8	0.2003971	0.1915793	0.1	-4.4	20	
1,2-Dichlorobenzene	A	50.0	48.3	0.9629007	0.9300061	0.4	-3.4	20	
1,2-Dichloroethane	A	50.0	49.3	1.136407	1.12128	0.1	-1.3	20	
1,2-Dichloropropane	A	50.0	43.0	0.2287833	0.1965561	0.1	-14.1	20	
1,3,5-Trimethylbenzene	A	50.0	48.0	1.681215	1.612628		-4.1	20	
1,3-Dichlorobenzene	A	50.0	49.0	1.000777	0.9814987	0.6	-1.9	20	
1,4-Dichlorobenzene	A	50.0	49.5	0.9928868	0.9826999	0.5	-1.0	20	
1,4-Dioxane	A	1000	798	2.928221E-03	2.337682E-03		-20.2	20	*
2-Butanone	A	50.0	45.2	0.1254416	0.1134328	0.1	-9.6	20	
2-Hexanone	A	50.0	40.1	0.1856889	0.1490542	0.1	-19.7	20	
4-Methyl-2-pentanone	A	50.0	36.7	0.3669302	0.269091	0.1	-26.7	20	*
Acetone	A	50.0	42.4	0.394662	0.3349025	0.1	-15.1	20	
Acrolein	A	50.0	52.2	0.1322031	0.1342355		4.3	20	
Acrylonitrile	A	50.0	43.8	0.3347	0.2935252		-12.3	20	
Benzene	A	50.0	47.3	3.516534	3.324804	0.5	-5.5	20	
Bromochloromethane	A	50.0	45.7	0.6828823	0.624311		-8.6	20	
Bromodichloromethane	A	50.0	44.2	0.3247678	0.2873395	0.2	-11.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	MS VOA 2	Calibration:	SK30029
Lab File ID:	V2625137.D	Calibration Date:	11/15/23 08:48
Sequence:	S3K2123	Injection Date:	11/20/23
Lab Sample ID:	S3K2123-CCV1	Injection Time:	10:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	50.0	52.2	0.147365	0.1387643	0.1	4.4	20	
Bromomethane	A	50.0	31.6	0.8695299	0.5504691	0.1	-36.7	20	*
Carbon disulfide	A	50.0	50.0	2.307149	2.309406	0.1	0.1	20	
Carbon tetrachloride	A	50.0	51.3	1.229583	1.261237	0.1	2.6	20	
Chlorobenzene	A	50.0	47.4	0.6228585	0.5911017	0.5	-5.1	20	
Chloroethane	A	50.0	38.5	1.063836	0.8185167	0.1	-23.1	20	*
Chloroform	A	50.0	48.2	1.59464	1.537384	0.2	-3.6	20	
Chloromethane	A	50.0	42.9	0.6851985	0.5878971	0.1	-14.2	20	
cis-1,2-Dichloroethylene	A	50.0	47.8	1.36203	1.300842	0.1	-4.5	20	
cis-1,3-Dichloropropylene	A	50.0	44.9	0.3944197	0.3538383	0.2	-10.3	20	
Cyclohexane	A	50.0	45.3	1.453269	1.317198	0.1	-9.4	20	
Dibromochloromethane	A	50.0	47.9	0.2305147	0.2207924	0.1	-4.2	20	
Dibromomethane	A	50.0	44.2	0.1547399	0.1366298		-11.7	20	
Dichlorodifluoromethane	A	50.0	47.4	0.6546613	0.6202919	0.1	-5.2	20	
Ethyl Benzene	A	50.0	46.2	1.102313	0.9842036	0.1	-7.7	20	
Hexachlorobutadiene	A	50.0	50.1	0.3670454	0.36756		0.1	20	
Isopropylbenzene	A	50.0	48.5	2.088844	2.026934	0.1	-3.0	20	
Methyl acetate	A	50.0	43.8	0.6814685	0.5964237	0.1	-12.5	20	
Methyl tert-butyl ether (MTBE)	A	50.0	48.3	2.633069	2.544789	0.1	-3.4	20	
Methylcyclohexane	A	50.0	45.7	0.4338677	0.396878	0.1	-8.5	20	
Methylene chloride	A	50.0	48.1	1.005829	0.9682472	0.1	-3.7	20	
n-Butylbenzene	A	50.0	46.6	2.270308	2.116831		-6.8	20	
n-Propylbenzene	A	50.0	47.2	2.563406	2.421174		-5.5	20	
o-Xylene	A	50.0	46.7	0.8562942	0.7621368	0.3	-6.5	20	
p- & m- Xylenes	A	100	85.1	0.8789277	0.7751426	0.1	-14.9	20	
p-Isopropyltoluene	A	50.0	47.7	1.966845	1.875376		-4.7	20	
sec-Butylbenzene	A	50.0	47.3	2.304484	2.181846		-5.3	20	
Styrene	A	50.0	41.6	0.7047701	0.6152723	0.3	-16.8	20	
tert-Butyl alcohol (TBA)	A	250	240	0.1291607	0.1240602		-3.9	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	MS VOA 2	Calibration:	SK30029
Lab File ID:	V2625137.D	Calibration Date:	11/15/23 08:48
Sequence:	S3K2123	Injection Date:	11/20/23
Lab Sample ID:	S3K2123-CCV1	Injection Time:	10:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	50.0	48.6	1.496178	1.45545		-2.7	20	
Tetrachloroethylene	A	50.0	37.4	0.3622082	0.2637871	0.2	-25.1	20	*
Toluene	A	50.0	44.7	1.024925	0.9170993	0.4	-10.5	20	
trans-1,2-Dichloroethylene	A	50.0	49.1	1.144373	1.124481	0.1	-1.7	20	
trans-1,3-Dichloropropylene	A	50.0	44.9	0.3650795	0.3277083	0.1	-10.2	20	
trans-1,4-dichloro-2-butene	A	50.0	43.6	0.6602414	0.575564		-12.8	20	
Trichloroethylene	A	50.0	45.8	0.2436389	0.2229245	0.2	-8.5	20	
Trichlorofluoromethane	A	50.0	43.3	3.08065	2.67028	0.1	-13.3	20	
Vinyl Chloride	A	50.0	41.7	1.106092	0.9228322	0.1	-16.6	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841397.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K2125	Injection Date:	11/20/23
Lab Sample ID:	S3K2125-CCV1	Injection Time:	09:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.19	0.252487	0.2446604		-8.1	20	
1,1,1-Trichloroethane	A	10.0	10.5	1.676194	1.752666	0.1	4.6	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.49	0.4083268	0.3876439	0.3	-5.1	20	
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	10.0	8.41	0.9052299	0.7613216	0.1	-15.9	20	
1,1,2-Trichloroethane	A	10.0	9.05	0.1638889	0.1483888	0.1	-9.5	20	
1,1-Dichloroethane	A	10.0	9.51	1.71564	1.632158	0.2	-4.9	20	
1,1-Dichloroethylene	A	10.0	8.60	1.319827	1.134748	0.1	-14.0	20	
1,2,3-Trichlorobenzene	A	10.0	8.11	0.3191153	0.258897		-18.9	20	
1,2,3-Trichloropropane	A	10.0	9.29	0.1229479	0.1142115		-7.1	20	
1,2,4-Trichlorobenzene	A	10.0	8.40	0.4262647	0.3580977	0.2	-16.0	20	
1,2,4-Trimethylbenzene	A	10.0	9.53	2.304133	2.196779		-4.7	20	
1,2-Dibromo-3-chloropropane	A	10.0	10.4	6.500658E-02	6.764509E-02	0.05	4.1	20	
1,2-Dibromoethane	A	10.0	9.31	0.1535879	0.1429526	0.1	-6.9	20	
1,2-Dichlorobenzene	A	10.0	9.26	1.048737	0.9711849	0.4	-7.4	20	
1,2-Dichloroethane	A	10.0	12.0	0.9439081	1.131319	0.1	19.9	20	
1,2-Dichloropropane	A	10.0	8.64	0.237461	0.2051459	0.1	-13.6	20	
1,3,5-Trimethylbenzene	A	10.0	9.36	2.365377	2.212989		-6.4	20	
1,3-Dichlorobenzene	A	10.0	9.01	1.215782	1.095264	0.6	-9.9	20	
1,4-Dichlorobenzene	A	10.0	8.73	1.195445	1.043888	0.5	-12.7	20	
1,4-Dioxane	A	200	151	1.12822E-03	1.05447E-03		-24.4	20	*
2-Butanone	A	10.0	9.72	6.586937E-02	6.401266E-02	0.1	-2.8	20	
2-Hexanone	A	10.0	8.37	9.722319E-02	8.132919E-02	0.1	-16.3	20	
4-Methyl-2-pentanone	A	10.0	8.78	0.1237697	0.1087302	0.1	-12.2	20	
Acetone	A	10.0	6.70	0.2617927	0.1342494	0.1	-33.0	20	*
Acrolein	A	10.0	6.08	5.997976E-02	3.648244E-02		-39.2	20	*
Acrylonitrile	A	10.0	8.66	0.1307435	0.1131589		-13.4	20	
Benzene	A	10.0	10.3	3.916385	4.037621	0.5	3.1	20	
Bromochloromethane	A	10.0	10.8	0.5664581	0.6101108		7.7	20	
Bromodichloromethane	A	10.0	9.38	0.3228941	0.3027171	0.2	-6.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841397.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K2125	Injection Date:	11/20/23
Lab Sample ID:	S3K2125-CCV1	Injection Time:	09:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	8.53	0.104662	0.1004445	0.1	-14.7	20	
Bromomethane	A	10.0	3.66	0.9829663	0.3593277	0.1	-63.4	20	*
Carbon disulfide	A	10.0	8.17	2.28485	1.866828	0.1	-18.3	20	
Carbon tetrachloride	A	10.0	10.1	1.471433	1.488377	0.1	1.2	20	
Chlorobenzene	A	10.0	9.87	0.7242045	0.7145761	0.5	-1.3	20	
Chloroethane	A	10.0	13.6	0.9008924	1.223886	0.1	35.9	20	*
Chloroform	A	10.0	10.4	1.677331	1.737638	0.2	3.6	20	
Chloromethane	A	10.0	9.47	1.118135	1.059001	0.1	-5.3	20	
cis-1,2-Dichloroethylene	A	10.0	10.4	1.45028	1.504954	0.1	3.8	20	
cis-1,3-Dichloropropylene	A	10.0	9.26	0.3896441	0.3606188	0.2	-7.4	20	
Cyclohexane	A	10.0	9.83	1.69539	1.666774	0.1	-1.7	20	
Dibromochloromethane	A	10.0	9.32	0.2044674	0.1905897	0.1	-6.8	20	
Dibromomethane	A	10.0	9.49	0.1124353	0.1066517		-5.1	20	
Dichlorodifluoromethane	A	10.0	9.22	0.9597646	0.884955	0.1	-7.8	20	
Ethyl Benzene	A	10.0	10.2	1.349986	1.369804	0.1	1.5	20	
Hexachlorobutadiene	A	10.0	8.37	0.1196686	0.1001219		-16.3	20	
Isopropylbenzene	A	10.0	8.97	3.043018	2.728853	0.1	-10.3	20	
Methyl acetate	A	10.0	8.58	0.3475983	0.2703782	0.1	-14.2	20	
Methyl tert-butyl ether (MTBE)	A	10.0	9.52	2.055289	1.957037	0.1	-4.8	20	
Methylcyclohexane	A	10.0	8.72	0.4933143	0.4303616	0.1	-12.8	20	
Methylene chloride	A	10.0	9.22	0.9924044	0.9153952	0.1	-7.8	20	
n-Butylbenzene	A	10.0	9.66	0.4197883	0.4055067		-3.4	20	
n-Propylbenzene	A	10.0	9.12	3.517517	3.20722		-8.8	20	
o-Xylene	A	10.0	10.2	1.0445	1.068318	0.3	2.3	20	
p- & m- Xylenes	A	20.0	21.6	1.073196	1.161242	0.1	8.2	20	
p-Isopropyltoluene	A	10.0	9.10	2.33792	2.126921		-9.0	20	
sec-Butylbenzene	A	10.0	9.03	2.778702	2.507868		-9.7	20	
Styrene	A	10.0	10.3	0.8082976	0.8293662	0.3	2.6	20	
tert-Butyl alcohol (TBA)	A	50.0	47.3	5.388464E-02	5.093261E-02		-5.5	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841397.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K2125	Injection Date:	11/20/23
Lab Sample ID:	S3K2125-CCV1	Injection Time:	09:54

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	8.75	2.025551	1.77221		-12.5	20	
Tetrachloroethylene	A	10.0	5.80	0.4668419	0.3232968	0.2	-42.0	20	*
Toluene	A	10.0	10.1	1.191132	1.20506	0.4	1.2	20	
trans-1,2-Dichloroethylene	A	10.0	9.48	1.284921	1.217776	0.1	-5.2	20	
trans-1,3-Dichloropropylene	A	10.0	9.96	0.3172758	0.3159879	0.1	-0.4	20	
trans-1,4-dichloro-2-butene	A	10.0	10.3	0.3803903	0.3929546		3.3	20	
Trichloroethylene	A	10.0	8.64	0.2917918	0.2519978	0.2	-13.6	20	
Trichlorofluoromethane	A	10.0	15.4	1.980224	3.045313	0.1	53.8	20	*
Vinyl Chloride	A	10.0	11.8	1.220025	1.444498	0.1	18.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2222
Instrument: BNA #1
Calibration: SK30028

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K2222-CCV1)			Lab File ID: BNA1024505.D		Analyzed: 11/21/23 17:26			
SURR: 2-Fluorophenol	30.0	100	0 - 200	4.142	4.147	-0.0050	+/-1.00	
SURR: Phenol-d6	30.0	103	0 - 200	4.909	4.905875	0.0031	+/-1.00	
SURR: Nitrobenzene-d5	30.0	96.9	0 - 200	5.687	5.68925	-0.0023	+/-1.00	
SURR: 2-Fluorobiphenyl	30.0	98.5	0 - 200	7.309	7.3155	-0.0065	+/-1.00	
SURR: 2,4,6-Tribromophenol	30.0	140	0 - 200	9.215	9.221625	-0.0066	+/-1.00	
SURR: Terphenyl-d14	30.0	100	0 - 200	12.708	12.71775	-0.0098	+/-1.00	
23SP6 (0-2.5 ft) (23K0980-05)			Lab File ID: BNA1024508.D		Analyzed: 11/21/23 18:57			
SURR: 2-Fluorophenol	1.78	46.0	20 - 108	4.147	4.147	0.0000	+/-1.00	
SURR: Phenol-d6	1.78	48.3	23 - 114	4.909	4.905875	0.0031	+/-1.00	
SURR: Nitrobenzene-d5	0.889	53.1	22 - 108	5.681	5.68925	-0.0083	+/-1.00	
SURR: 2-Fluorobiphenyl	0.889	51.0	21 - 113	7.303	7.3155	-0.0125	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.78	55.2	19 - 110	9.209	9.221625	-0.0126	+/-1.00	
SURR: Terphenyl-d14	0.889	57.0	24 - 116	12.708	12.71775	-0.0098	+/-1.00	
23SP6 (12.5-15 ft) (23K0980-06)			Lab File ID: BNA1024509.D		Analyzed: 11/21/23 19:28			
SURR: 2-Fluorophenol	2.10	84.6	20 - 108	4.147	4.147	0.0000	+/-1.00	
SURR: Phenol-d6	2.10	92.5	23 - 114	4.914	4.905875	0.0081	+/-1.00	
SURR: Nitrobenzene-d5	1.05		22 - 108	0	5.68925	-5.6893	+/-1.00	*
SURR: 2-Fluorobiphenyl	1.05	62.6	21 - 113	7.309	7.3155	-0.0065	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.10	133	19 - 110	9.221	9.221625	-0.0006	+/-1.00	*
SURR: Terphenyl-d14	1.05	72.6	24 - 116	12.714	12.71775	-0.0038	+/-1.00	
23SP6 (15-17.5 ft) (23K0980-07)			Lab File ID: BNA1024510.D		Analyzed: 11/21/23 19:59			
SURR: 2-Fluorophenol	2.62	88.2	20 - 108	4.147	4.147	0.0000	+/-1.00	
SURR: Phenol-d6	2.62	88.5	23 - 114	4.915	4.905875	0.0091	+/-1.00	
SURR: Nitrobenzene-d5	1.31	98.1	22 - 108	5.687	5.68925	-0.0023	+/-1.00	
SURR: 2-Fluorobiphenyl	1.31	55.3	21 - 113	7.309	7.3155	-0.0065	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.62	119	19 - 110	9.215	9.221625	-0.0066	+/-1.00	*
SURR: Terphenyl-d14	1.31	59.4	24 - 116	12.714	12.71775	-0.0038	+/-1.00	
23SP6 (22.5-25 ft) (23K0980-08)			Lab File ID: BNA1024511.D		Analyzed: 11/21/23 20:30			
SURR: 2-Fluorophenol	2.40	85.4	20 - 108	4.147	4.147	0.0000	+/-1.00	
SURR: Phenol-d6	2.40	81.5	23 - 114	4.909	4.905875	0.0031	+/-1.00	
SURR: Nitrobenzene-d5	1.20	79.4	22 - 108	5.682	5.68925	-0.0072	+/-1.00	
SURR: 2-Fluorobiphenyl	1.20	75.0	21 - 113	7.303	7.3155	-0.0125	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.40	112	19 - 110	9.215	9.221625	-0.0066	+/-1.00	*
SURR: Terphenyl-d14	1.20	83.3	24 - 116	12.708	12.71775	-0.0098	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2243
Instrument: BNA #7
Calibration: SK30004

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (S3K2243-CCV1)			Lab File ID: E70351699.D		Analyzed: 11/22/23 09:52			
SURR: 2-Fluorophenol	30.0	92.4	0 - 200	3.741	3.724625	0.0164	+/-1.00	
SURR: Phenol-d6	30.0	93.5	0 - 200	4.521	4.494875	0.0261	+/-1.00	
SURR: Nitrobenzene-d5	30.0	88.8	0 - 200	5.236	5.22925	0.0067	+/-1.00	
SURR: 2-Fluorobiphenyl	30.0	100	0 - 200	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	30.0	118	0 - 200	8.471	8.44375	0.0273	+/-1.00	
SURR: Terphenyl-d14	30.0	102	0 - 200	11.956	11.91338	0.0426	+/-1.00	
23SP5 (0-2.5 ft) (23K0980-01)			Lab File ID: E70351702.D		Analyzed: 11/22/23 11:47			
SURR: 2-Fluorophenol	1.88	33.8	20 - 108	3.741	3.724625	0.0164	+/-1.00	
SURR: Phenol-d6	1.88	35.5	23 - 114	4.515	4.494875	0.0201	+/-1.00	
SURR: Nitrobenzene-d5	0.940	40.2	22 - 108	5.237	5.22925	0.0077	+/-1.00	
SURR: 2-Fluorobiphenyl	0.940	39.0	21 - 113	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.88	47.4	19 - 110	8.466	8.44375	0.0222	+/-1.00	
SURR: Terphenyl-d14	0.940	41.3	24 - 116	11.951	11.91338	0.0376	+/-1.00	
23SP5 (12.5-15 ft) (23K0980-02)			Lab File ID: E70351703.D		Analyzed: 11/22/23 12:17			
SURR: 2-Fluorophenol	1.94	65.7	20 - 108	3.747	3.724625	0.0224	+/-1.00	
SURR: Phenol-d6	1.94	59.6	23 - 114	4.521	4.494875	0.0261	+/-1.00	
SURR: Nitrobenzene-d5	0.968		22 - 108	0	5.22925	-5.2293	+/-1.00	*
SURR: 2-Fluorobiphenyl	0.968	50.2	21 - 113	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.94	73.5	19 - 110	8.471	8.44375	0.0273	+/-1.00	
SURR: Terphenyl-d14	0.968	59.0	24 - 116	11.968	11.91338	0.0546	+/-1.00	
23SP5 (15-17.5 ft) (23K0980-03)			Lab File ID: E70351704.D		Analyzed: 11/22/23 12:48			
SURR: 2-Fluorophenol	2.38	68.6	20 - 108	3.741	3.724625	0.0164	+/-1.00	
SURR: Phenol-d6	2.38	62.8	23 - 114	4.521	4.494875	0.0261	+/-1.00	
SURR: Nitrobenzene-d5	1.19		22 - 108	0	5.22925	-5.2293	+/-1.00	*
SURR: 2-Fluorobiphenyl	1.19	53.8	21 - 113	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.38	76.3	19 - 110	8.471	8.44375	0.0273	+/-1.00	
SURR: Terphenyl-d14	1.19	55.4	24 - 116	11.956	11.91338	0.0426	+/-1.00	
23SP5 (25-27.5 ft) (23K0980-04)			Lab File ID: E70351705.D		Analyzed: 11/22/23 13:18			
SURR: 2-Fluorophenol	2.00	65.0	20 - 108	3.741	3.724625	0.0164	+/-1.00	
SURR: Phenol-d6	2.00	65.0	23 - 114	4.515	4.494875	0.0201	+/-1.00	
SURR: Nitrobenzene-d5	1.00	64.2	22 - 108	5.237	5.22925	0.0077	+/-1.00	
SURR: 2-Fluorobiphenyl	1.00	71.4	21 - 113	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.00	98.3	19 - 110	8.465	8.44375	0.0213	+/-1.00	
SURR: Terphenyl-d14	1.00	84.4	24 - 116	11.95	11.91338	0.0366	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2243
Instrument: BNA #7
Calibration: SK30004

Surrogate Compound	Spike Level mg/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP5 (12.5-15 ft) (23K0980-02RE2)			Lab File ID: E70351710.D		Analyzed: 11/22/23 15:51			
SURR: 2-Fluorophenol	1.94	76.4	20 - 108	3.741	3.724625	0.0164	+/-1.00	
SURR: Phenol-d6	1.94	65.2	23 - 114	4.521	4.494875	0.0261	+/-1.00	
SURR: Nitrobenzene-d5	0.968		22 - 108	0	5.22925	-5.2293	+/-1.00	*
SURR: 2-Fluorobiphenyl	0.968	56.4	21 - 113	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	1.94	83.2	19 - 110	8.471	8.44375	0.0273	+/-1.00	
SURR: Terphenyl-d14	0.968	62.0	24 - 116	11.956	11.91338	0.0426	+/-1.00	
23SP5 (15-17.5 ft) (23K0980-03RE2)			Lab File ID: E70351711.D		Analyzed: 11/22/23 16:22			
SURR: 2-Fluorophenol	2.38	66.3	20 - 108	3.741	3.724625	0.0164	+/-1.00	
SURR: Phenol-d6	2.38	63.9	23 - 114	4.521	4.494875	0.0261	+/-1.00	
SURR: Nitrobenzene-d5	1.19		22 - 108	0	5.22925	-5.2293	+/-1.00	*
SURR: 2-Fluorobiphenyl	1.19	52.0	21 - 113	6.726	6.7185	0.0075	+/-1.00	
SURR: 2,4,6-Tribromophenol	2.38	67.4	19 - 110	8.472	8.44375	0.0282	+/-1.00	
SURR: Terphenyl-d14	1.19	53.6	24 - 116	11.951	11.91338	0.0376	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31284	Laboratory ID:	BK31284-BS1
Preparation:	EPA 3550C	Initial/Final:	30.1 g / 1 mL

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Fluoranthene	0.831	0.567	68.3	33 - 122
Fluorene	0.831	0.549	66.0	29 - 123
Hexachlorobenzene	0.831	0.589	71.0	21 - 124
Hexachlorobutadiene	0.831	0.536	64.5	10 - 149
Hexachlorocyclopentadiene	0.831	ND	*	10 - 129
Hexachloroethane	0.831	0.501	60.3	28 - 108
Indeno(1,2,3-cd)pyrene	0.831	0.629	75.7	10 - 135
Isophorone	0.831	0.564	67.9	20 - 132
Naphthalene	0.831	0.528	63.6	23 - 124
Nitrobenzene	0.831	0.569	68.5	13 - 132
N-Nitrosodimethylamine	0.831	0.523	62.9	11 - 129
N-nitroso-di-n-propylamine	0.831	0.529	63.7	24 - 119
N-Nitrosodiphenylamine	0.831	0.595	71.7	22 - 152
Pentachlorophenol	0.831	0.217	26.1	10 - 139
Phenanthrene	0.831	0.552	66.4	33 - 123
Phenol	0.831	0.597	71.8	23 - 115
Pyrene	0.831	0.563	67.8	32 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.58448	3.544253	6.80375	0.1825872			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.4675845	4.442957	6.562125	0.1747262			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.2812595	7.114969	5.751375	0.1612923			20	
1,2-Dichlorobenzene	1.482179	4.783369	4.920125	0.1988233			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.9368827	4.714477	8.27425	0.1617629			20	
1,3-Dichlorobenzene	1.544358	5.062963	4.723	0.2029172			20	
1,4-Dichlorobenzene	1.579991	4.492532	4.75875	0.1866359			20	
2,3,4,6-Tetrachlorophenol	0.1299258	10.02989	7.845125	0.2005175			SPCC (0.01)	
2,4,5-Trichlorophenol	0.3378067	7.844157	6.690125	0.1713612			SPCC (0.2)	
2,4,6-Trichlorophenol	0.2950052	8.353011	6.653875	0.1835595			SPCC (0.2)	
2,4-Dichlorophenol	0.2488906	4.769764	5.679375	0.1569845			SPCC (0.2)	
2,4-Dimethylphenol	0.2837471	5.474553	5.518875	0.1377068			SPCC (0.2)	
2,4-Dinitrophenol	6.672327E-02	42.99398	7.518	0.1746261			SPCC (0.01)	*
2,4-Dinitrotoluene	0.3189717	21.25647	7.692375	0.1737629			SPCC (0.2)	*
2,6-Dinitrotoluene	0.2444813	18.0875	7.244375	0.1841868			SPCC (0.2)	
2-Chloronaphthalene	1.125321	4.591738	6.824875	0.1717545			SPCC (0.8)	
2-Chlorophenol	1.383042	4.584219	4.606875	0.2093262			SPCC (0.8)	
2-Methylnaphthalene	0.6576992	5.985113	6.372375	0.1672699			SPCC (0.4)	
2-Methylphenol	1.127103	3.634443	4.983375	0.1500613			SPCC (0.7)	
2-Nitroaniline	0.3470772	15.25153	6.965875	0.1845732			SPCC (0.01)	
2-Nitrophenol	0.1410626	9.017735	5.501875	0.1817565			SPCC (0.1)	
3- & 4-Methylphenols	1.710722	3.693593	5.096125	0.1983575			SPCC (0.6)	
3,3-Dichlorobenzidine	0.476604	11.07177	14.02963	0.1094211			SPCC (0.01)	
3-Nitroaniline	0.3118217	12.53309	7.405125	0.1771377			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	6.395164E-02	39.91615	8.211	0.1693039			SPCC (0.01)	*
4-Bromophenyl phenyl ether	0.1778004	4.172418	8.757125	0.1799693			SPCC (0.1)	
4-Chloro-3-methylphenol	0.2888503	4.846186	6.248125	0.1616488			SPCC (0.2)	
4-Chloroaniline	0.4199863	5.011689	5.864875	0.1927784			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.5941548	2.569765	8.06125	0.1952104			SPCC (0.4)	
4-Nitroaniline	0.3203372	12.04705	8.171	0.1791622			SPCC (0.01)	
4-Nitrophenol	0.271315	13.01804	7.564375	0.1601309			SPCC (0.01)	
Acenaphthene	1.095571	3.157927	7.464125	0.1709655			SPCC (0.9)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthylene	1.90149	3.653924	7.262	0.1807059			SPCC (0.9)	
Acetophenone	2.127855	4.954929	5.10125	0.1888992			SPCC (0.01)	
Aniline	2.054586	3.708684	4.523125	0.1660573			SPCC ()	
Anthracene	1.077212	3.930975	9.517	0.1251185			SPCC (0.7)	
Atrazine	0.1966296	5.87485	9.0785	0.1586969			SPCC (0.01)	
Benzaldehyde	1.161117	6.931282	4.408875	0.2187847			SPCC (0.01)	
Benzidine	0.5753458	12.91901	11.466	0.1323274			20	
Benzo(a)anthracene	1.29345	3.823915	13.95187	0.1203029			SPCC (0.8)	
Benzo(a)pyrene	1.167304	7.385991	16.83613	9.745885E-02			SPCC (0.7)	
Benzo(b)fluoranthene	1.217679	5.311605	16.20925	9.631515E-02			SPCC (0.7)	
Benzo(g,h,i)perylene	1.015063	7.597123	19.3115	8.603334E-02			SPCC (0.5)	
Benzo(k)fluoranthene	1.291905	4.993503	16.2565	0.1066804			SPCC (0.7)	
Benzoic acid	0.1475029	36.11995	5.595875	0.2953773			20	*
Benzyl alcohol	0.9399217	3.854087	4.882375	0.1821055			20	
Benzyl butyl phthalate	0.6216166	11.49739	13.0195	0.1101736			20	
Bis(2-chloroethoxy)methane	0.406978	7.318958	5.597125	0.1958425			SPCC (0.3)	
Bis(2-chloroethyl)ether	1.43603	3.86877	4.569	0.1734465			SPCC (0.7)	
Bis(2-chloroisopropyl)ether	1.988478	5.61948	5.002375	0.1944762			SPCC (0.01)	
Bis(2-ethylhexyl)phthalate	0.8344516	11.2304	14.35263	0.1012992			20	
Caprolactam	0.1001433	10.49855	6.13475	0.2792034			SPCC (0.01)	
Carbazole	1.023745	3.709349	9.727125	0.1186385			SPCC (0.01)	
Chrysene	1.354546	3.861438	14.0435	0.1108449			SPCC (0.7)	
Dibenzo(a,h)anthracene	0.9728928	11.21524	18.93637	0.0759342			SPCC (0.4)	
Dibenzofuran	1.632596	3.635415	7.64525	0.1840666			SPCC (0.8)	
Diethyl phthalate	1.353198	3.547448	7.972375	0.1753444			SPCC (0.01)	
Dimethyl phthalate	1.303882	3.345505	7.152875	0.1742905			SPCC (0.01)	
Di-n-butyl phthalate	1.159312	5.197642	10.28138	0.1303243			SPCC (0.01)	
Di-n-octyl phthalate	1.255997	20.74487	15.66737	8.944153E-02			SPCC (0.01)	*
Diphenylamine	0.5609292	5.133152	8.235	0.1697666			20	
Fluoranthene	1.122611	3.768362	11.17225	0.124381			SPCC (0.6)	
Fluorene	1.345643	3.248564	8.076375	0.1652907			SPCC (0.9)	
Hexachlorobenzene	0.1005795	6.131823	8.994875	0.1846889			SPCC (0.1)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30028
Instrument: BNA #1
Calibration Date: 11/14/23 00:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.5965762	4.990789	7.42725	4.022625E-02			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.5434154	4.779488	7.1155	4.139911E-02			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.3098857	7.829316	6.245	1.414161E-02			20	
1,2-Dichlorobenzene	1.48786	6.142213	5.379	1.142005E-02			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.6529885	4.3632	9.0945	2.902726E-02			20	
1,3-Dichlorobenzene	1.541881	4.20464	5.19175	4.345552E-02			20	
1,4-Dichlorobenzene	1.570132	4.38469	5.2515	9.615633E-03			20	
2,3,4,6-Tetrachlorophenol	0.1116324	15.7356	8.5305	0.0268158			SPCC (0.01)	
2,4,5-Trichlorophenol	0.3424304	6.942936	7.263625	5.424773E-02			SPCC (0.2)	
2,4,6-Trichlorophenol	0.3098764	9.911776	7.223875	4.094524E-02			SPCC (0.2)	
2,4-Dichlorophenol	0.2669576	5.201447	6.164	1.211791E-02			SPCC (0.2)	
2,4-Dimethylphenol	0.3079197	7.674796	5.9825	4.408086E-02			SPCC (0.2)	
2,4-Dinitrophenol	6.148249E-02	36.86874	8.16675	5.388857E-02			SPCC (0.01)	*
2,4-Dinitrotoluene	0.344298	10.06548	8.337167	0.0453311			SPCC (0.2)	
2,6-Dinitrotoluene	0.2609901	7.142033	7.831	5.943532E-02			SPCC (0.2)	
2-Chloronaphthalene	1.127168	3.280853	7.46	1.186152E-02			SPCC (0.8)	
2-Chlorophenol	1.296521	6.246855	5.06	7.541344E-03			SPCC (0.8)	
2-Methylnaphthalene	0.731537	6.125773	6.954	6.925697E-03			SPCC (0.4)	
2-Methylphenol	1.094459	4.349896	5.42	1.800334E-02			SPCC (0.7)	
2-Nitroaniline	0.3414234	6.082328	7.56	3.176842E-02			SPCC (0.01)	
2-Nitrophenol	0.1240744	14.75725	5.966	2.381312E-02			SPCC (0.1)	
3- & 4-Methylphenols	1.667157	6.621554	5.5405	5.061217E-02			SPCC (0.6)	
3,3-Dichlorobenzidine	0.4612444	26.36743	14.85575	3.078534E-02			SPCC (0.01)	*
3-Nitroaniline	0.3040249	4.942553	8.041	0.046072			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	4.576422E-02	40.23223	8.912	8.058002E-02			SPCC (0.01)	*
4-Bromophenyl phenyl ether	0.1827855	6.459613	9.544	2.588831E-02			SPCC (0.1)	
4-Chloro-3-methylphenol	0.2921669	5.275081	6.7695	0.0368546			SPCC (0.2)	
4-Chloroaniline	0.4341384	4.73671	6.356	8.815696E-03			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.7033094	5.029448	8.850375	3.195296E-02			SPCC (0.4)	
4-Nitroaniline	0.3505497	4.607242	8.874	6.902494E-02			SPCC (0.01)	
4-Nitrophenol	0.2050556	19.27633	8.20825	6.121735E-02			SPCC (0.01)	
Acenaphthene	1.166522	5.428832	8.156375	2.599412E-02			SPCC (0.9)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30028
Instrument: BNA #1
Calibration Date: 11/14/23 00:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthylene	1.88372	4.694342	7.942	1.000816E-02			SPCC (0.9)	
Acetophenone	2.052236	3.802501	5.560875	4.515794E-02			SPCC (0.01)	
Aniline	1.898741	4.473391	4.964	6.497417E-02			SPCC ()	
Anthracene	1.070236	4.267889	10.16575	2.975855E-02			SPCC (0.7)	
Atrazine	0.1924034	10.62324	9.72225	1.660487E-02			SPCC (0.01)	
Benzaldehyde	1.120393	6.549843	4.879875	1.774585E-02			SPCC (0.01)	
Benzidine	0.6424361	33.55706	12.22417	2.050636E-02			20	*
Benzo(a)anthracene	1.203769	4.456062	14.83637	1.376503E-02			SPCC (0.8)	
Benzo(a)pyrene	0.9619685	10.8766	17.73625	0.0310818			SPCC (0.7)	
Benzo(b)fluoranthene	1.037445	8.530202	17.102	2.768282E-02			SPCC (0.7)	
Benzo(g,h,i)perylene	0.8408039	11.13907	20.2265	3.488329E-02			SPCC (0.5)	
Benzo(k)fluoranthene	1.132695	7.758828	17.16013	3.847219E-02			SPCC (0.7)	
Benzoic acid	0.1164274	14.00691	6.032167	0.2660437			20	
Benzyl alcohol	0.9116266	6.996636	5.339625	3.919251E-02			20	
Benzyl butyl phthalate	0.4534544	16.59531	13.81725	1.212903E-02			20	
Bis(2-chloroethoxy)methane	0.3890972	6.510999	6.0665	4.362203E-02			SPCC (0.3)	
Bis(2-chloroethyl)ether	1.365784	5.70087	5.013	9.535686E-03			SPCC (0.7)	
Bis(2-chloroisopropyl)ether	1.387277	4.575327	5.449	1.775543E-02			SPCC (0.01)	
Bis(2-ethylhexyl)phthalate	0.6575062	7.972548	15.17783	1.516327E-02			20	
Caprolactam	0.1085834	10.18104	6.675375	0.1604531			SPCC (0.01)	
Carbazole	1.000406	5.804803	10.37287	2.556573E-02			SPCC (0.01)	
Chrysene	1.214916	4.556478	14.90887	0.019299			SPCC (0.7)	
Dibenzo(a,h)anthracene	0.7535453	12.68619	19.84925	2.713697E-02			SPCC (0.4)	
Dibenzofuran	1.747773	5.970947	8.381	3.439862E-02			SPCC (0.8)	
Diethyl phthalate	1.359276	3.784939	8.66675	5.218885E-02			SPCC (0.01)	
Dimethyl phthalate	1.339746	5.240713	7.752625	3.569125E-02			SPCC (0.01)	
Di-n-butyl phthalate	1.07708	11.39024	10.92925	4.402551E-03			SPCC (0.01)	
Di-n-octyl phthalate	0.9417525	12.27634	16.617	0.0104002			SPCC (0.01)	
Diphenylamine	0.4624684	3.741372	9.02375	0.0296007			20	
Fluoranthene	1.19393	6.655264	11.9305	2.334986E-02			SPCC (0.6)	
Fluorene	1.471419	4.517909	8.864125	2.191181E-02			SPCC (0.9)	
Hexachlorobenzene	8.677032E-02	5.221815	9.607	3.501393E-02			SPCC (0.1)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30028
Instrument: BNA #1
Calibration Date: 11/14/23 00:01

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Hexachlorobutadiene	0.1862669	8.121459	6.414	7.942242E-03			SPCC (0.01)	
Hexachlorocyclopentadiene	0.2839022	13.84247	7.101875	3.916658E-02			SPCC (0.05)	
Hexachloroethane	0.5904742	4.973069	5.658	2.369238E-02			SPCC (0.3)	
Indeno(1,2,3-cd)pyrene	0.6905067	12.91767	19.78637	3.230038E-02			SPCC (0.5)	
Isophorone	0.6820241	4.435099	5.89825	4.334956E-02			SPCC (0.4)	
Naphthalene	1.079355	7.652608	6.321	2.098023E-02			SPCC (0.7)	
Nitrobenzene	0.3617285	4.384214	5.70575	3.559635E-02			SPCC (0.2)	
N-Nitrosodimethylamine	0.9364879	5.420172	3.0385	9.091855E-02			20	
N-nitroso-di-n-propylamine	1.169343	4.158813	5.556	4.831277E-02			SPCC (0.5)	
N-Nitrosodiphenylamine	0.1636602	5.663404	9.023125	3.661842E-02			SPCC (0.01)	
Pentachlorophenol	8.231466E-02	25.38861	9.8295	2.948056E-02			SPCC (0.05)	*
Phenanthrene	1.085006	3.662732	10.10025	3.395994E-02			SPCC (0.7)	
Phenol	1.663286	3.759593	4.917375	5.563156E-02			SPCC (0.8)	
Pyrene	1.267692	4.99408	12.34388	2.211153E-02			SPCC (0.6)	
Pyridine	1.678104	5.394877	3.0765	0.1392414			20	
SURR: 2,4,6-Tribromophenol	5.970133E-02	18.87912	9.221625	0.0366671			20	
SURR: 2-Fluorobiphenyl	1.328191	5.799304	7.3155	1.779291E-02			20	
SURR: 2-Fluorophenol	1.190346	5.873885	4.147	1.995338E-02			20	
SURR: Nitrobenzene-d5	0.34736	3.929145	5.68925	5.888454E-02			20	
SURR: Phenol-d6	1.637347	4.705793	4.905875	6.288121E-02			20	
SURR: Terphenyl-d14	0.9305411	4.382482	12.71775	2.397397E-02			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	30.4	1.5	30.00
1,2-Dichlorobenzene	30.0	28.5	-5.1	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	28.7	-4.2	30.00
1,3-Dichlorobenzene	30.0	28.4	-5.3	30.00
1,4-Dichlorobenzene	30.0	28.8	-4.1	30.00
2,3,4,6-Tetrachlorophenol	30.0	35.9	19.7	30.00
2,4,5-Trichlorophenol	30.0	30.7	2.3	30.00
2,4,6-Trichlorophenol	30.0	31.7	5.5	30.00
2,4-Dichlorophenol	30.0	31.2	4.0	30.00
2,4-Dimethylphenol	30.0	23.1	-23.0	30.00
2,4-Dinitrophenol	30.0	45.8	52.6 *	30.00
2,4-Dinitrotoluene	30.0	35.5	18.5	30.00
2,6-Dinitrotoluene	30.0	36.2	20.7	30.00
2-Chloronaphthalene	30.0	28.9	-3.6	30.00
2-Chlorophenol	30.0	30.0	0.1	30.00
2-Methylnaphthalene	30.0	29.8	-0.6	30.00
2-Methylphenol	30.0	28.8	-3.8	30.00
2-Nitroaniline	30.0	33.7	12.4	30.00
2-Nitrophenol	30.0	35.5	18.4	30.00
3- & 4-Methylphenols	30.0	25.5	-14.9	30.00
3-Nitroaniline	30.0	32.8	9.5	30.00
4,6-Dinitro-2-methylphenol	30.0	39.9	33.0 *	30.00
4-Bromophenyl phenyl ether	30.0	28.6	-4.8	30.00
4-Chloro-3-methylphenol	30.0	31.6	5.2	30.00
4-Chloroaniline	30.0	28.6	-4.6	30.00
4-Chlorophenyl phenyl ether	30.0	28.9	-3.6	30.00
4-Nitroaniline	30.0	31.8	5.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	28.2	-6.0	30.00
Hexachlorobutadiene	30.0	29.7	-0.9	30.00
Hexachlorocyclopentadiene	30.0	17.7	-40.9 *	30.00
Hexachloroethane	30.0	28.9	-3.8	30.00
Indeno(1,2,3-cd)pyrene	30.0	31.9	6.2	30.00
Isophorone	30.0	31.2	4.2	30.00
Naphthalene	30.0	29.9	-0.4	30.00
Nitrobenzene	30.0	30.4	1.2	30.00
N-Nitrosodimethylamine	30.0	28.3	-5.7	30.00
N-nitroso-di-n-propylamine	30.0	28.2	-5.9	30.00
N-Nitrosodiphenylamine	30.0	33.5	11.7	30.00
Pentachlorophenol	30.0	35.4	18.0	30.00
Phenanthrene	30.0	28.8	-3.9	30.00
Phenol	30.0	28.8	-3.9	30.00
Pyrene	30.0	28.7	-4.3	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30028
Laboratory ID: S3K1612-SCV1
Sequence: S3K1612
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	26.6	-11.4	30.00
1,2-Dichlorobenzene	30.0	25.2	-15.8	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	26.1	-13.0	30.00
1,3-Dichlorobenzene	30.0	27.0	-9.9	30.00
1,4-Dichlorobenzene	30.0	26.6	-11.2	30.00
2,3,4,6-Tetrachlorophenol	30.0	35.5	18.2	30.00
2,4,5-Trichlorophenol	30.0	31.4	4.8	30.00
2,4,6-Trichlorophenol	30.0	29.0	-3.2	30.00
2,4-Dichlorophenol	30.0	28.4	-5.3	30.00
2,4-Dimethylphenol	30.0	19.7	-34.3 *	30.00
2,4-Dinitrophenol	30.0	42.9	43.1 *	30.00
2,4-Dinitrotoluene	30.0	33.8	12.6	30.00
2,6-Dinitrotoluene	30.0	32.5	8.3	30.00
2-Chloronaphthalene	30.0	27.6	-8.1	30.00
2-Chlorophenol	30.0	27.4	-8.8	30.00
2-Methylnaphthalene	30.0	26.6	-11.4	30.00
2-Methylphenol	30.0	26.4	-12.2	30.00
2-Nitroaniline	30.0	31.0	3.3	30.00
2-Nitrophenol	30.0	34.0	13.5	30.00
3- & 4-Methylphenols	30.0	24.2	-19.5	30.00
3-Nitroaniline	30.0	30.9	3.0	30.00
4,6-Dinitro-2-methylphenol	30.0	39.3	30.9 *	30.00
4-Bromophenyl phenyl ether	30.0	27.0	-9.9	30.00
4-Chloro-3-methylphenol	30.0	29.4	-1.9	30.00
4-Chloroaniline	30.0	25.4	-15.3	30.00
4-Chlorophenyl phenyl ether	30.0	28.0	-6.6	30.00
4-Nitroaniline	30.0	30.5	1.6	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30028
Laboratory ID: S3K1612-SCV1
Sequence: S3K1612
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Hexachlorobenzene	30.0	26.6	-11.3	30.00
Hexachlorobutadiene	30.0	27.6	-8.0	30.00
Hexachlorocyclopentadiene	30.0	17.3	-42.2 *	30.00
Hexachloroethane	30.0	25.7	-14.3	30.00
Indeno(1,2,3-cd)pyrene	30.0	30.8	2.7	30.00
Isophorone	30.0	28.9	-3.8	30.00
Naphthalene	30.0	27.5	-8.3	30.00
Nitrobenzene	30.0	27.0	-10.1	30.00
N-Nitrosodimethylamine	30.0	25.1	-16.2	30.00
N-nitroso-di-n-propylamine	30.0	27.2	-9.4	30.00
N-Nitrosodiphenylamine	30.0	31.6	5.2	30.00
Pentachlorophenol	30.0	34.0	13.3	30.00
Phenanthrene	30.0	28.1	-6.3	30.00
Phenol	30.0	25.6	-14.5	30.00
Pyrene	30.0	28.2	-6.0	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #1	Calibration:	SK30028
Lab File ID:	BNA1024505.D	Calibration Date:	11/14/23 00:01
Sequence:	S3K2222	Injection Date:	11/21/23
Lab Sample ID:	S3K2222-CCV1	Injection Time:	17:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	28.9	0.5965762	0.5745754	0.01	-3.7	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	29.4	0.5434154	0.5317311	0.01	-2.2	20	
1,2,4-Trichlorobenzene	A	30.0	28.7	0.3098857	0.2965208		-4.3	20	
1,2-Dichlorobenzene	A	30.0	30.8	1.48786	1.529086		2.8	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	28.4	0.6529885	0.618577		-5.3	20	
1,3-Dichlorobenzene	A	30.0	28.0	1.541881	1.440874		-6.6	20	
1,4-Dichlorobenzene	A	30.0	30.0	1.570132	1.568062		-0.1	20	
2,3,4,6-Tetrachlorophenol	A	30.0	37.6	0.1116324	0.1397835	0.01	25.2	20	*
2,4,5-Trichlorophenol	A	30.0	36.4	0.3424304	0.4158782	0.2	21.4	20	*
2,4,6-Trichlorophenol	A	30.0	34.9	0.3098764	0.3600906	0.2	16.2	20	
2,4-Dichlorophenol	A	30.0	31.4	0.2669576	0.2793597	0.2	4.6	20	
2,4-Dimethylphenol	A	30.0	26.8	0.3079197	0.2754386	0.2	-10.5	20	
2,4-Dinitrophenol	A	30.0	71.8	6.148249E-02	0.1471859	0.01	139	20	*
2,4-Dinitrotoluene	A	30.0	36.6	0.344298	0.4196931	0.2	21.9	20	*
2,6-Dinitrotoluene	A	30.0	35.0	0.2609901	0.3047249	0.2	16.8	20	
2-Chloronaphthalene	A	30.0	29.2	1.127168	1.098912	0.8	-2.5	20	
2-Chlorophenol	A	30.0	32.2	1.296521	1.393552	0.8	7.5	20	
2-Methylnaphthalene	A	30.0	27.3	0.731537	0.6657203	0.4	-9.0	20	
2-Methylphenol	A	30.0	31.4	1.094459	1.146504	0.7	4.8	20	
2-Nitroaniline	A	30.0	35.1	0.3414234	0.3992145	0.01	16.9	20	
2-Nitrophenol	A	30.0	42.5	0.1240744	0.1757027	0.1	41.6	20	*
3- & 4-Methylphenols	A	30.0	31.5	1.667157	1.752643	0.6	5.1	20	
3,3-Dichlorobenzidine	A	30.0	33.6	0.4612444	0.5158301	0.01	11.8	20	
3-Nitroaniline	A	30.0	35.2	0.3040249	0.3567947	0.01	17.4	20	
4,6-Dinitro-2-methylphenol	A	30.0	67.2	4.576422E-02	0.1024653	0.01	124	20	*
4-Bromophenyl phenyl ether	A	30.0	31.0	0.1827855	0.189213	0.1	3.5	20	
4-Chloro-3-methylphenol	A	30.0	29.0	0.2921669	0.2827368	0.2	-3.2	20	
4-Chloroaniline	A	30.0	28.5	0.4341384	0.4129206	0.01	-4.9	20	
4-Chlorophenyl phenyl ether	A	30.0	31.3	0.7033094	0.7345691	0.4	4.4	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #1	Calibration:	SK30028
Lab File ID:	BNA1024505.D	Calibration Date:	11/14/23 00:01
Sequence:	S3K2222	Injection Date:	11/21/23
Lab Sample ID:	S3K2222-CCV1	Injection Time:	17:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	33.2	0.3505497	0.3884318	0.01	10.8	20	
4-Nitrophenol	A	30.0	37.2	0.2050556	0.2540103	0.01	23.9	20	*
Acenaphthene	A	30.0	29.4	1.166522	1.141621	0.9	-2.1	20	
Acenaphthylene	A	30.0	30.0	1.88372	1.881869	0.9	-0.1	20	
Acetophenone	A	30.0	30.9	2.052236	2.115877	0.01	3.1	20	
Aniline	A	30.0	29.8	1.898741	1.882867		-0.8	20	
Anthracene	A	30.0	30.4	1.070236	1.083775	0.7	1.3	20	
Atrazine	A	30.0	32.0	0.1924034	0.2054155	0.01	6.8	20	
Benzaldehyde	A	30.0	26.8	1.120393	1.002548	0.01	-10.5	20	
Benzidine	A	30.0	27.8	0.6424361	0.5949355		-7.4	20	
Benzo(a)anthracene	A	30.0	32.5	1.203769	1.303054	0.8	8.2	20	
Benzo(a)pyrene	A	30.0	36.1	0.9619685	1.158575	0.7	20.4	20	*
Benzo(b)fluoranthene	A	30.0	35.2	1.037445	1.217451	0.7	17.4	20	
Benzo(g,h,i)perylene	A	30.0	35.4	0.8408039	0.9919983	0.5	18.0	20	
Benzo(k)fluoranthene	A	30.0	31.8	1.132695	1.198868	0.7	5.8	20	
Benzoic acid	A	30.0	50.2	0.1164274	0.1947219		67.2	20	*
Benzyl alcohol	A	30.0	32.8	0.9116266	0.9972852		9.4	20	
Benzyl butyl phthalate	A	30.0	37.5	0.4534544	0.5662281		24.9	20	*
Bis(2-chloroethoxy)methane	A	30.0	26.3	0.3890972	0.3407166	0.3	-12.4	20	
Bis(2-chloroethyl)ether	A	30.0	29.8	1.365784	1.356145	0.7	-0.7	20	
Bis(2-chloroisopropyl)ether	A	30.0	27.8	1.387277	1.286629	0.01	-7.3	20	
Bis(2-ethylhexyl)phthalate	A	30.0	35.2	0.6575062	0.771801		17.4	20	
Caprolactam	A	30.0	30.4	0.1085834	0.1099259	0.01	1.2	20	
Carbazole	A	30.0	30.7	1.000406	1.023268	0.01	2.3	20	
Chrysene	A	30.0	31.1	1.214916	1.259699	0.7	3.7	20	
Dibenzo(a,h)anthracene	A	30.0	39.0	0.7535453	0.9785656	0.4	29.9	20	*
Dibenzofuran	A	30.0	29.0	1.747773	1.691056	0.8	-3.2	20	
Diethyl phthalate	A	30.0	29.6	1.359276	1.33903	0.01	-1.5	20	
Dimethyl phthalate	A	30.0	29.3	1.339746	1.30918	0.01	-2.3	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #1	Calibration:	SK30028
Lab File ID:	BNA1024505.D	Calibration Date:	11/14/23 00:01
Sequence:	S3K2222	Injection Date:	11/21/23
Lab Sample ID:	S3K2222-CCV1	Injection Time:	17:26

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	33.0	1.07708	1.183208	0.01	9.9	20	
Di-n-octyl phthalate	A	30.0	43.1	0.9417525	1.354058	0.01	43.8	20	*
Diphenylamine	A	30.0	30.9	0.4624684	0.4763964		3.0		
Fluoranthene	A	30.0	31.2	1.19393	1.242817	0.6	4.1	20	
Fluorene	A	30.0	29.8	1.471419	1.459217	0.9	-0.8	20	
Hexachlorobenzene	A	30.0	28.3	8.677032E-02	8.191171E-02	0.1	-5.6	20	
Hexachlorobutadiene	A	30.0	26.6	0.1862669	0.1651887	0.01	-11.3	20	
Hexachlorocyclopentadiene	A	30.0	23.3	0.2839022	0.220463	0.05	-22.3	20	*
Hexachloroethane	A	30.0	28.1	0.5904742	0.5527456	0.3	-6.4	20	
Indeno(1,2,3-cd)pyrene	A	30.0	41.0	0.6905067	0.9434939	0.5	36.6	20	*
Isophorone	A	30.0	26.6	0.6820241	0.6047205	0.4	-11.3	20	
Naphthalene	A	30.0	26.4	1.079355	0.9511168	0.7	-11.9	20	
Nitrobenzene	A	30.0	28.7	0.3617285	0.3462999	0.2	-4.3	20	
N-Nitrosodimethylamine	A	30.0	27.6	0.9364879	0.8605759		-8.1	20	
N-nitroso-di-n-propylamine	A	30.0	27.6	1.169343	1.077647	0.5	-7.8	20	
N-Nitrosodiphenylamine	A	30.0	31.8	0.1636602	0.1733062	0.01	5.9	20	
Pentachlorophenol	A	30.0	46.1	8.231466E-02	0.1265325	0.05	53.7	20	*
Phenanthrene	A	30.0	28.6	1.085006	1.03616	0.7	-4.5	20	
Phenol	A	30.0	30.3	1.663286	1.679283	0.8	1.0	20	
Pyrene	A	30.0	31.0	1.267692	1.309175	0.6	3.3	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351699.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K2243	Injection Date:	11/22/23
Lab Sample ID:	S3K2243-CCV1	Injection Time:	09:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	29.0	0.58448	0.565794	0.01	-3.2	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	30.9	0.4675845	0.4822923	0.01	3.1	20	
1,2,4-Trichlorobenzene	A	30.0	28.6	0.2812595	0.2678451		-4.8	20	
1,2-Dichlorobenzene	A	30.0	28.8	1.482179	1.420586		-4.2	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	25.9	0.9368827	0.8100288		-13.5	20	
1,3-Dichlorobenzene	A	30.0	28.5	1.544358	1.468632		-4.9	20	
1,4-Dichlorobenzene	A	30.0	29.0	1.579991	1.526835		-3.4	20	
2,3,4,6-Tetrachlorophenol	A	30.0	32.2	0.1299258	0.1392299	0.01	7.2	20	
2,4,5-Trichlorophenol	A	30.0	32.8	0.3378067	0.3691693	0.2	9.3	20	
2,4,6-Trichlorophenol	A	30.0	33.9	0.2950052	0.3333139	0.2	13.0	20	
2,4-Dichlorophenol	A	30.0	29.8	0.2488906	0.2476184	0.2	-0.5	20	
2,4-Dimethylphenol	A	30.0	28.2	0.2837471	0.2669932	0.2	-5.9	20	
2,4-Dinitrophenol	A	30.0	64.8	6.672327E-02	0.1440452	0.01	116	20	*
2,4-Dinitrotoluene	A	30.0	39.8	0.3189717	0.423133	0.2	32.7	20	*
2,6-Dinitrotoluene	A	30.0	39.3	0.2444813	0.3203811	0.2	31.0	20	*
2-Chloronaphthalene	A	30.0	29.0	1.125321	1.089107	0.8	-3.2	20	
2-Chlorophenol	A	30.0	29.6	1.383042	1.365197	0.8	-1.3	20	
2-Methylnaphthalene	A	30.0	28.6	0.6576992	0.6276722	0.4	-4.6	20	
2-Methylphenol	A	30.0	28.8	1.127103	1.082752	0.7	-3.9	20	
2-Nitroaniline	A	30.0	35.2	0.3470772	0.4074923	0.01	17.4	20	
2-Nitrophenol	A	30.0	36.0	0.1410626	0.1690763	0.1	19.9	20	
3- & 4-Methylphenols	A	30.0	29.1	1.710722	1.659446	0.6	-3.0	20	
3,3-Dichlorobenzidine	A	30.0	31.7	0.476604	0.5029432	0.01	5.5	20	
3-Nitroaniline	A	30.0	35.5	0.3118217	0.3686647	0.01	18.2	20	
4,6-Dinitro-2-methylphenol	A	30.0	62.2	6.395164E-02	0.1325219	0.01	107	20	*
4-Bromophenyl phenyl ether	A	30.0	32.9	0.1778004	0.1950243	0.1	9.7	20	
4-Chloro-3-methylphenol	A	30.0	28.5	0.2888503	0.2747999	0.2	-4.9	20	
4-Chloroaniline	A	30.0	28.2	0.4199863	0.3953954	0.01	-5.9	20	
4-Chlorophenyl phenyl ether	A	30.0	31.9	0.5941548	0.6310814	0.4	6.2	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351699.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K2243	Injection Date:	11/22/23
Lab Sample ID:	S3K2243-CCV1	Injection Time:	09:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	34.3	0.3203372	0.3661414	0.01	14.3	20	
4-Nitrophenol	A	30.0	27.2	0.271315	0.2459998	0.01	-9.3	20	
Acenaphthene	A	30.0	29.5	1.095571	1.076968	0.9	-1.7	20	
Acenaphthylene	A	30.0	30.0	1.90149	1.903628	0.9	0.1	20	
Acetophenone	A	30.0	28.1	2.127855	1.993538	0.01	-6.3	20	
Aniline	A	30.0	28.2	2.054586	1.930646		-6.0	20	
Anthracene	A	30.0	30.4	1.077212	1.092588	0.7	1.4	20	
Atrazine	A	30.0	34.1	0.1966296	0.2237509	0.01	13.8	20	
Benzaldehyde	A	30.0	26.4	1.161117	1.021312	0.01	-12.0	20	
Benzidine	A	30.0	32.0	0.5753458	0.613965		6.7	20	
Benzo(a)anthracene	A	30.0	31.1	1.29345	1.340949	0.8	3.7	20	
Benzo(a)pyrene	A	30.0	30.4	1.167304	1.184738	0.7	1.5	20	
Benzo(b)fluoranthene	A	30.0	31.5	1.217679	1.27926	0.7	5.1	20	
Benzo(g,h,i)perylene	A	30.0	29.2	1.015063	0.9870075	0.5	-2.8	20	
Benzo(k)fluoranthene	A	30.0	27.8	1.291905	1.195007	0.7	-7.5	20	
Benzoic acid	A	30.0	19.1	0.1475029	0.1087838		-26.2	20	*
Benzyl alcohol	A	30.0	30.0	0.9399217	0.9386161		-0.1	20	
Benzyl butyl phthalate	A	30.0	35.2	0.6216166	0.7288408		17.2	20	
Bis(2-chloroethoxy)methane	A	30.0	26.4	0.406978	0.3578206	0.3	-12.1	20	
Bis(2-chloroethyl)ether	A	30.0	27.4	1.43603	1.312469	0.7	-8.6	20	
Bis(2-chloroisopropyl)ether	A	30.0	21.0	1.988478	1.390466	0.01	-30.1	20	*
Bis(2-ethylhexyl)phthalate	A	30.0	34.9	0.8344516	0.9711557		16.4	20	
Caprolactam	A	30.0	27.4	0.1001433	9.141392E-02	0.01	-8.7	20	
Carbazole	A	30.0	30.3	1.023745	1.032811	0.01	0.9	20	
Chrysene	A	30.0	28.5	1.354546	1.284938	0.7	-5.1	20	
Dibenzo(a,h)anthracene	A	30.0	32.0	0.9728928	1.036567	0.4	6.5	20	
Dibenzofuran	A	30.0	30.2	1.632596	1.642458	0.8	0.6	20	
Diethyl phthalate	A	30.0	30.9	1.353198	1.391869	0.01	2.9	20	
Dimethyl phthalate	A	30.0	30.2	1.303882	1.312387	0.01	0.7	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351699.D	Calibration Date:	10/25/23 00:39
Sequence:	S3K2243	Injection Date:	11/22/23
Lab Sample ID:	S3K2243-CCV1	Injection Time:	09:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Di-n-butyl phthalate	A	30.0	32.3	1.159312	1.247619	0.01	7.6	20	
Di-n-octyl phthalate	A	30.0	41.1	1.255997	1.720124	0.01	37.0	20	*
Diphenylamine	A	30.0	32.4	0.5609292	0.6065793		8.1		
Fluoranthene	A	30.0	31.0	1.122611	1.159027	0.6	3.2	20	
Fluorene	A	30.0	31.0	1.345643	1.392615	0.9	3.5	20	
Hexachlorobenzene	A	30.0	27.5	0.1005795	9.216991E-02	0.1	-8.4	20	
Hexachlorobutadiene	A	30.0	28.5	0.1473557	0.1397769	0.01	-5.1	20	
Hexachlorocyclopentadiene	A	30.0	20.8	0.2725474	0.1886535	0.05	-30.8	20	*
Hexachloroethane	A	30.0	28.9	0.6058276	0.5838192	0.3	-3.6	20	
Indeno(1,2,3-cd)pyrene	A	30.0	35.2	0.9943673	1.019876	0.5	2.6	20	
Isophorone	A	30.0	26.0	0.6839875	0.5935995	0.4	-13.2	20	
Naphthalene	A	30.0	26.9	1.014117	0.9093693	0.7	-10.3	20	
Nitrobenzene	A	30.0	25.3	0.380903	0.321404	0.2	-15.6	20	
N-Nitrosodimethylamine	A	30.0	23.2	0.8236448	0.6381825		-22.5	20	*
N-nitroso-di-n-propylamine	A	30.0	26.1	1.195253	1.040535	0.5	-12.9	20	
N-Nitrosodiphenylamine	A	30.0	30.8	0.1989297	0.204209	0.01	2.7	20	
Pentachlorophenol	A	30.0	30.5	8.893906E-02	9.029433E-02	0.05	1.5	20	
Phenanthrene	A	30.0	29.1	1.091927	1.05997	0.7	-2.9	20	
Phenol	A	30.0	27.8	1.932752	1.788923	0.8	-7.4	20	
Pyrene	A	30.0	30.0	1.497822	1.499228	0.6	0.09	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2254
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP5 (25-27.5 ft) (23K0980-04)			Lab File ID: QQQ32481.d		Analyzed: 11/22/23 14:11			
M3PFBS	2.36	69.3	25 - 150	5.141067	5.154708	-0.0136	+/-1.00	
M5PFHxA	2.53	87.1	25 - 150	5.9453	5.896742	0.0486	+/-1.00	
M4PFHpA	2.53	105	25 - 150	6.7515	6.612394	0.1391	+/-1.00	
M3PFHxS	2.40	90.7	25 - 150	6.852767	6.69831	0.1545	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.53	84.0	25 - 150	7.446017	7.228673	0.2173	+/-1.00	
M6PFDA	1.26	96.2	25 - 150	8.6428	8.325208	0.3176	+/-1.00	
M7PFUdA	1.26	96.7	25 - 150	9.133984	8.807389	0.3266	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.26	83.8	25 - 150	9.56845	9.254519	0.3139	+/-1.00	
M2PFTeDA	1.26	70.1	10 - 150	10.25788	10.01288	0.2450	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.1	2.37	25 - 150	1.195633	1.219727	-0.0241	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.42	80.3	25 - 150	8.113283	7.829089	0.2842	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.06	8.07	25 - 150	4.375533	4.446487	-0.0710	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.53	58.9	10 - 150	9.138383	8.806458	0.3319	+/-1.00	
d3-N-MeFOSAA	5.06	53.0	25 - 150	8.8547	8.533981	0.3207	+/-1.00	
d5-N-EtFOSAA	5.06	64.4	25 - 150	9.105166	8.785462	0.3197	+/-1.00	
M2-6:2 FTS	4.81	44.8	25 - 200	7.380367	7.170869	0.2095	+/-1.00	
M2-8:2 FTS	4.86	48.6	25 - 200	8.595667	8.28256	0.3131	+/-1.00	
M9PFNA	1.26	89.7	25 - 150	8.077766	7.796514	0.2813	+/-1.00	
M2-4:2 FTS	4.75	51.7	25 - 150	5.878817	5.828181	0.0506	+/-1.00	
d-N-MeFOSA	2.53	46.7	25 - 150	9.99845	9.706333	0.2921	+/-1.00	
d-N-EtFOSA	2.53	43.6	25 - 150	10.28195	10.01312	0.2688	+/-1.00	
M3HFPO-DA	10.1	100	25 - 150	6.235083	6.155542	0.0795	+/-1.00	
d9-N-EtFOSE	25.3	33.5	25 - 150	10.23333	9.96349	0.2698	+/-1.00	
d7-N-MeFOSE	25.3	49.3	25 - 150	9.9666	9.668704	0.2979	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2254
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP6 (0-2.5 ft) (23K0980-05)			Lab File ID: QQQ32482.d		Analyzed: 11/22/23 14:27			
M3PFBS	2.10	69.2	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	2.26	92.4	25 - 150	5.9453	5.896742	0.0486	+/-1.00	
M4PFHpA	2.26	119	25 - 150	6.731833	6.612394	0.1194	+/-1.00	
M3PFHxS	2.14	127	25 - 150	6.8335	6.69831	0.1352	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.26	107	25 - 150	7.408933	7.228673	0.1803	+/-1.00	
M6PFDA	1.13	118	25 - 150	8.5872	8.325208	0.2620	+/-1.00	
M7PFUdA	1.13	114	25 - 150	9.069117	8.807389	0.2617	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.13	108	25 - 150	9.494117	9.254519	0.2396	+/-1.00	
M2PFTeDA	1.13	87.2	10 - 150	10.175	10.01288	0.1621	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	9.04	2.44	25 - 150	1.2048	1.219727	-0.0149	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.16	105	25 - 150	8.066883	7.829089	0.2378	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	4.51	7.31	25 - 150	4.393917	4.446487	-0.0526	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.26	78.1	10 - 150	9.082583	8.806458	0.2761	+/-1.00	
d3-N-MeFOSAA	4.51	75.1	25 - 150	8.7982	8.533981	0.2642	+/-1.00	
d5-N-EtFOSAA	4.51	93.7	25 - 150	9.049334	8.785462	0.2639	+/-1.00	
M2-6:2 FTS	4.28	80.4	25 - 200	7.35225	7.170869	0.1814	+/-1.00	
M2-8:2 FTS	4.33	116	25 - 200	8.549334	8.28256	0.2668	+/-1.00	
M9PFNA	1.13	126	25 - 150	8.031366	7.796514	0.2349	+/-1.00	
M2-4:2 FTS	4.23	59.6	25 - 150	5.86935	5.828181	0.0412	+/-1.00	
d-N-MeFOSA	2.26	47.2	25 - 150	9.923616	9.706333	0.2173	+/-1.00	
d-N-EtFOSA	2.26	44.8	25 - 150	10.19907	10.01312	0.1860	+/-1.00	
M3HFPO-DA	9.04	96.3	25 - 150	6.225833	6.155542	0.0703	+/-1.00	
d9-N-EtFOSE	22.6	44.5	25 - 150	10.15965	9.96349	0.1962	+/-1.00	
d7-N-MeFOSE	22.6	62.3	25 - 150	9.892266	9.668704	0.2236	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2254
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP6 (12.5-15 ft) (23K0980-06)			Lab File ID: QQQ32483.d		Analyzed: 11/22/23 14:44			
M3PFBS	2.49	87.7	25 - 150	5.13185	5.154708	-0.0229	+/-1.00	
M5PFHxA	2.68	113	25 - 150	5.93605	5.896742	0.0393	+/-1.00	
M4PFHpA	2.68	130	25 - 150	6.731833	6.612394	0.1194	+/-1.00	
M3PFHxS	2.54	136	25 - 150	6.8335	6.69831	0.1352	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.68	112	25 - 150	7.4182	7.228673	0.1895	+/-1.00	
M6PFDA	1.34	143	25 - 150	8.596467	8.325208	0.2713	+/-1.00	
M7PFUdA	1.34	126	25 - 150	9.078383	8.807389	0.2710	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.34	105	25 - 150	9.503366	9.254519	0.2488	+/-1.00	
M2PFTeDA	1.34	100	10 - 150	10.1842	10.01288	0.1713	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.7	2.69	25 - 150	1.195633	1.219727	-0.0241	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.56	130	25 - 150	8.076167	7.829089	0.2471	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.35	7.37	25 - 150	4.384717	4.446487	-0.0618	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.68	95.4	10 - 150	9.09185	8.806458	0.2854	+/-1.00	
d3-N-MeFOSAA	5.35	83.5	25 - 150	8.807484	8.533981	0.2735	+/-1.00	
d5-N-EtFOSAA	5.35	100	25 - 150	9.05885	8.785462	0.2734	+/-1.00	
M2-6:2 FTS	5.08	69.7	25 - 200	7.361817	7.170869	0.1909	+/-1.00	
M2-8:2 FTS	5.13	87.8	25 - 200	8.5586	8.28256	0.2760	+/-1.00	
M9PFNA	1.34	150	25 - 150	8.04065	7.796514	0.2441	+/-1.00	
M2-4:2 FTS	5.02	50.3	25 - 150	5.86935	5.828181	0.0412	+/-1.00	
d-N-MeFOSA	2.68	61.8	25 - 150	9.93285	9.706333	0.2265	+/-1.00	
d-N-EtFOSA	2.68	61.7	25 - 150	10.20827	10.01312	0.1952	+/-1.00	
M3HFPO-DA	10.7	128	25 - 150	6.225833	6.155542	0.0703	+/-1.00	
d9-N-EtFOSE	26.8	57.9	25 - 150	10.16887	9.96349	0.2054	+/-1.00	
d7-N-MeFOSE	26.8	75.3	25 - 150	9.9015	9.668704	0.2328	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2254
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP6 (15-17.5 ft) (23K0980-07)			Lab File ID: QQQ32484.d		Analyzed: 11/22/23 15:00			
M3PFBS	3.08	78.4	25 - 150	5.122617	5.154708	-0.0321	+/-1.00	
M5PFHxA	3.31	112	25 - 150	5.9453	5.896742	0.0486	+/-1.00	
M4PFHpA	3.31	124	25 - 150	6.76995	6.612394	0.1576	+/-1.00	
M3PFHxS	3.13	129	25 - 150	6.871267	6.69831	0.1730	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.31	113	25 - 150	7.473834	7.228673	0.2452	+/-1.00	
M6PFDA	1.65	138	25 - 150	8.652066	8.325208	0.3269	+/-1.00	
M7PFUdA	1.65	127	25 - 150	9.14325	8.807389	0.3359	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.65	108	25 - 150	9.5592	9.254519	0.3047	+/-1.00	
M2PFTeDA	1.65	88.8	10 - 150	10.25788	10.01288	0.2450	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	13.2	2.39	25 - 150	1.1589	1.219727	-0.0608	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.16	124	25 - 150	8.141117	7.829089	0.3120	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.60	7.23	25 - 150	4.338767	4.446487	-0.1077	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.31	83.0	10 - 150	9.14765	8.806458	0.3412	+/-1.00	
d3-N-MeFOSAA	6.60	79.0	25 - 150	8.873266	8.533981	0.3393	+/-1.00	
d5-N-EtFOSAA	6.60	91.5	25 - 150	9.11445	8.785462	0.3290	+/-1.00	
M2-6:2 FTS	6.28	73.2	25 - 200	7.408183	7.170869	0.2373	+/-1.00	
M2-8:2 FTS	6.34	94.5	25 - 200	8.6142	8.28256	0.3316	+/-1.00	
M9PFNA	1.65	119	25 - 150	8.1056	7.796514	0.3091	+/-1.00	
M2-4:2 FTS	6.20	63.4	25 - 150	5.878817	5.828181	0.0506	+/-1.00	
d-N-MeFOSA	3.31	55.0	25 - 150	9.99845	9.706333	0.2921	+/-1.00	
d-N-EtFOSA	3.31	50.0	25 - 150	10.28195	10.01312	0.2688	+/-1.00	
M3HFPO-DA	13.2	126	25 - 150	6.24435	6.155542	0.0888	+/-1.00	
d9-N-EtFOSE	33.1	55.4	25 - 150	10.24255	9.96349	0.2791	+/-1.00	
d7-N-MeFOSE	33.1	69.0	25 - 150	9.9666	9.668704	0.2979	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2254
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23SP6 (22.5-25 ft) (23K0980-08)			Lab File ID: QQQ32485.d		Analyzed: 11/22/23 15:16			
M3PFBS	2.81	84.8	25 - 150	5.1134	5.154708	-0.0413	+/-1.00	
M5PFHxA	3.02	105	25 - 150	5.9453	5.896742	0.0486	+/-1.00	
M4PFHpA	3.02	120	25 - 150	6.779183	6.612394	0.1668	+/-1.00	
M3PFHxS	2.86	133	25 - 150	6.889783	6.69831	0.1915	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.02	101	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	1.51	100	25 - 150	8.6706	8.325208	0.3454	+/-1.00	
M7PFUdA	1.51	92.7	25 - 150	9.133984	8.807389	0.3266	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.51	79.8	25 - 150	9.540717	9.254519	0.2862	+/-1.00	
M2PFTeDA	1.51	66.7	10 - 150	10.20263	10.01288	0.1898	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	12.1	2.37	25 - 150	1.149733	1.219727	-0.0700	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.89	74.6	25 - 150	8.160267	7.829089	0.3312	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	6.03	6.90	25 - 150	4.311183	4.446487	-0.1353	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	3.02	59.5	10 - 150	9.14765	8.806458	0.3412	+/-1.00	
d3-N-MeFOSAA	6.03	45.6	25 - 150	8.873266	8.533981	0.3393	+/-1.00	
d5-N-EtFOSAA	6.03	49.4	25 - 150	9.11445	8.785462	0.3290	+/-1.00	
M2-6:2 FTS	5.73	61.9	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	5.79	50.9	25 - 200	8.632733	8.28256	0.3502	+/-1.00	
M9PFNA	1.51	107	25 - 150	8.114883	7.796514	0.3184	+/-1.00	
M2-4:2 FTS	5.66	68.6	25 - 150	5.878817	5.828181	0.0506	+/-1.00	
d-N-MeFOSA	3.02	46.5	25 - 150	9.96155	9.706333	0.2552	+/-1.00	
d-N-EtFOSA	3.02	38.0	25 - 150	10.22668	10.01312	0.2136	+/-1.00	
M3HFPO-DA	12.1	111	25 - 150	6.24435	6.155542	0.0888	+/-1.00	
d9-N-EtFOSE	30.2	26.5	25 - 150	10.18728	9.96349	0.2238	+/-1.00	
d7-N-MeFOSE	30.2	41.4	25 - 150	9.929183	9.668704	0.2605	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2254
Instrument: LCQQQ
Calibration: SJ30009

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
PFAS Field Blank (23K0980-11)			Lab File ID: QQQ32496.d		Analyzed: 11/22/23 18:22			
M3PFBS	23.3	89.8	25 - 150	5.1503	5.154708	-0.0044	+/-1.00	
M5PFHxA	25.0	97.9	25 - 150	5.973	5.896742	0.0763	+/-1.00	
M4PFHpA	25.0	115	25 - 150	6.7982	6.612394	0.1858	+/-1.00	
M3PFHxS	23.7	109	25 - 150	6.908283	6.69831	0.2100	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	25.0	90.6	25 - 150	7.4831	7.228673	0.2544	+/-1.00	
M6PFDA	12.5	109	25 - 150	8.6428	8.325208	0.3176	+/-1.00	
M7PFUdA	12.5	113	25 - 150	9.115417	8.807389	0.3080	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	12.5	92.4	25 - 150	9.522217	9.254519	0.2677	+/-1.00	
M2PFTeDA	12.5	42.6	10 - 150	10.21183	10.01288	0.1990	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	100	0.683	25 - 150	1.18645	1.219727	-0.0333	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	24.0	97.3	25 - 150	8.13185	7.829089	0.3028	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	50.0	14.0	25 - 150	4.375533	4.446487	-0.0710	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	25.0	75.6	10 - 150	9.11055	8.806458	0.3041	+/-1.00	
d3-N-MeFOSAA	50.0	48.2	25 - 150	8.845417	8.533981	0.3114	+/-1.00	
d5-N-EtFOSAA	50.0	56.2	25 - 150	9.0959	8.785462	0.3104	+/-1.00	
M2-6:2 FTS	47.6	55.7	25 - 200	7.426717	7.170869	0.2558	+/-1.00	
M2-8:2 FTS	48.0	46.8	25 - 200	8.604934	8.28256	0.3224	+/-1.00	
M9PFNA	12.5	99.7	25 - 150	8.096316	7.796514	0.2998	+/-1.00	
M2-4:2 FTS	46.9	61.3	25 - 150	5.8973	5.828181	0.0691	+/-1.00	
d-N-MeFOSA	25.0	54.2	25 - 150	9.943117	9.706333	0.2368	+/-1.00	
d-N-EtFOSA	25.0	41.1	25 - 150	10.21748	10.01312	0.2044	+/-1.00	
M3HFPO-DA	100	111	25 - 150	6.272117	6.155542	0.1166	+/-1.00	
d9-N-EtFOSE	250	20.8	25 - 150	10.16887	9.96349	0.2054	+/-1.00	*
d7-N-MeFOSE	250	34.3	25 - 150	9.9015	9.668704	0.2328	+/-1.00	

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31292	Laboratory ID:	BK31292-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #		QC LIMITS REC.
11CL-PF3OUdS	7.49	5.63	75.3		50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.2	16.6	109		50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.9	14.0	94.3		50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.0	15.7	104		50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	79.2	72.5	91.6		50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	79.2	90.6	114		50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	15.8	5.88	37.1	*	50 - 150
9CL-PF3ONS	7.41	7.07	95.5		50 - 150
ADONA	7.49	8.17	109		50 - 150
HFPO-DA (Gen-X)	7.92	6.65	83.9		50 - 150
N-EtFOSA	3.96	2.67	67.3		50 - 150
N-EtFOSAA	3.96	4.22	106		50 - 150
N-EtFOSE	39.6	44.1	111		50 - 150
N-MeFOSA	3.96	3.52	88.8		50 - 150
N-MeFOSAA	3.96	3.68	93.0		50 - 150
N-MeFOSE	39.6	41.0	103		50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.05	7.24	103		50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	3.82	3.36	87.8		50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.78	4.25	112		50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	3.80	3.79	99.7		50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	3.96	4.28	108		50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	3.72	3.55	95.4		50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	7.92	5.03	63.6		50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	7.92	1.95	24.6	*	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	7.92	21.3	268	*	50 - 150
Perfluorobutanesulfonic acid (PFBS)	3.50	3.46	98.7		50 - 150
Perfluorodecanoic acid (PFDA)	3.96	3.39	85.5		50 - 150
Perfluorododecanesulfonic acid (PFDoS)	3.84	2.88	75.1		50 - 150
Perfluorododecanoic acid (PFDoA)	3.96	4.32	109		50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Soil		
Batch:	BK31292	Laboratory ID:	BK31292-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	5.05 g / 5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	1.50	1.09	73.1	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.04	3.34	110	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.97	2.72	91.5	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.01	3.36	112	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	15.8	12.1	76.4	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	15.8	14.6	92.0	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	3.17	0.903	28.5 *	50 - 150
9CL-PF3ONS	1.48	1.33	89.7	50 - 150
ADONA	1.50	1.31	87.4	50 - 150
HFPO-DA (Gen-X)	1.58	1.12	70.9	50 - 150
N-EtFOSA	0.792	0.606	76.5	50 - 150
N-EtFOSAA	0.792	0.785	99.1	50 - 150
N-EtFOSE	7.92	8.09	102	50 - 150
N-MeFOSA	0.792	0.774	97.7	50 - 150
N-MeFOSAA	0.792	0.760	95.9	50 - 150
N-MeFOSE	7.92	8.44	107	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.41	1.41	99.7	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	0.764	0.587	76.8	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.756	0.832	110	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	0.760	0.825	109	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	0.792	0.979	124	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	0.745	0.709	95.2	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.58	1.08	68.1	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	1.58	0.173	10.9 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	1.58	3.62	229 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	0.701	0.652	93.1	50 - 150
Perfluorodecanoic acid (PFDA)	0.792	0.747	94.2	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	0.768	0.621	80.8	50 - 150
Perfluorododecanoic acid (PFDoA)	0.792	0.769	97.1	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31413	Laboratory ID:	BK31413-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	250.03 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	151	162	107	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	307	335	109	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	300	269	89.8	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	304	338	111	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	1600	1440	89.9	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	1600	1470	92.0	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	320	163	50.8	50 - 150
9CL-PF3ONS	150	176	118	50 - 150
ADONA	151	139	92.2	50 - 150
HFPO-DA (Gen-X)	160	143	89.3	50 - 150
N-EtFOSA	80.0	76.0	95.0	50 - 150
N-EtFOSAA	80.0	7.42	9.28 *	50 - 150
N-EtFOSE	800	792	99.0	50 - 150
N-MeFOSA	80.0	72.1	90.1	50 - 150
N-MeFOSAA	80.0	8.67	10.8 *	50 - 150
N-MeFOSE	800	840	105	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	142	141	99.1	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	77.2	76.1	98.6	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	76.4	72.8	95.3	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	76.8	95.7	125	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	80.0	86.4	108	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	75.2	64.3	85.5	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	160	125	78.3	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	160	19.4	12.1 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	160	245	153 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	70.8	63.8	90.1	50 - 150
Perfluorodecanoic acid (PFDA)	80.0	81.7	102	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	77.6	55.2	71.1	50 - 150
Perfluorododecanoic acid (PFDoA)	80.0	79.3	99.2	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31413	Laboratory ID:	BK31413-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	250.03 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #		QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	80.0	64.3	80.3		50 - 150
Perfluorohexanesulfonic acid (PFHxS)	73.2	12.7	17.3	*	50 - 150
Perfluorohexanoic acid (PFHxA)	80.0	74.0	92.5		50 - 150
Perfluoro-n-butanoic acid (PFBA)	320	226	70.5		50 - 150
Perfluorononanoic acid (PFNA)	80.0	86.4	108		50 - 150
Perfluorooctanesulfonic acid (PFOS)	74.4	22.0	29.5	*	50 - 150
Perfluorooctanoic acid (PFOA)	80.0	72.5	90.7		50 - 150
Perfluoropentanoic acid (PFPeA)	160	144	89.9		50 - 150
Perfluorotetradecanoic acid (PFTA)	80.0	68.9	86.1		50 - 150
Perfluorotridecanoic acid (PFTrDA)	80.0	97.0	121		50 - 150
Perfluoroundecanoic acid (PFUnA)	80.0	82.2	103		50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31413	Laboratory ID:	BK31413-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.09 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	30.2	38.4	127	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	61.4	71.5	116	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	60.0	67.1	112	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	60.8	79.1	130	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	320	440	138	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	320	368	115	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	64.0	39.5	61.8	50 - 150
9CL-PF3ONS	29.9	38.9	130	50 - 150
ADONA	30.2	29.6	98.0	50 - 150
HFPO-DA (Gen-X)	32.0	32.9	103	50 - 150
N-EtFOSA	16.0	14.2	88.6	50 - 150
N-EtFOSAA	16.0	15.6	97.7	50 - 150
N-EtFOSE	160	200	125	50 - 150
N-MeFOSA	16.0	18.3	114	50 - 150
N-MeFOSAA	16.0	17.9	112	50 - 150
N-MeFOSE	160	238	149	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	28.5	32.4	114	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	15.4	16.1	105	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	15.3	14.9	97.6	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	15.4	20.4	133	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	16.0	20.9	131	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	15.0	16.5	110	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	32.0	45.2	141	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	32.0	4.45	13.9 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	32.0	52.8	165 *	50 - 150
Perfluorobutanesulfonic acid (PFBS)	14.2	15.1	107	50 - 150
Perfluorodecanoic acid (PFDA)	16.0	16.5	103	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	15.5	11.8	76.2	50 - 150
Perfluorododecanoic acid (PFDoA)	16.0	19.8	124	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31413	Laboratory ID:	BK31413-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.09 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	16.0	10.7	67.0	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	14.6	15.8	108	50 - 150
Perfluorohexanoic acid (PFHxA)	16.0	16.2	102	50 - 150
Perfluoro-n-butanoic acid (PFBA)	64.0	53.1	83.0	50 - 150
Perfluorononanoic acid (PFNA)	16.0	17.9	112	50 - 150
Perfluorooctanesulfonic acid (PFOS)	14.9	14.6	98.1	50 - 150
Perfluorooctanoic acid (PFOA)	16.0	16.5	103	50 - 150
Perfluoropentanoic acid (PFPeA)	32.0	32.8	102	50 - 150
Perfluorotetradecanoic acid (PFTA)	16.0	19.5	122	50 - 150
Perfluorotridecanoic acid (PFTrDA)	16.0	26.6	166 *	50 - 150
Perfluoroundecanoic acid (PFUnA)	16.0	16.4	102	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SJ30009
Instrument: LCQQQ
Calibration Date: 10/02/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
11CL-PF3OUdS	0.7105157	5.72859	9.081596	1.12874		0.9999776	0.995	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.1767107	39.01332	8.281806	1.276528		0.9900164	0.995	*
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.8242061	35.589	5.82754	0.3595247		0.993617	0.995	*
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.9425926	37.0172	7.170204	1.058431		0.9893765	0.995	*
3-Perfluoroheptyl propanoic acid (FHpPA)	0.1232525	18.86516	7.922573	1.290296		0.9997601	0.995	
3-Perfluoropentyl propanoic acid (FPePA)	0.1140748	23.52091	6.666288	0.6714893		0.9999763	0.995	
3-Perfluoropropyl propanoic acid (FPrPA)	1.634509E-02	18.00515	4.160234	1.484028		0.9999391	0.995	
9CL-PF3ONS	0.9740683	8.298783	8.14971	1.314775		0.9997536	0.995	
ADONA	0.4656269	3.342766	6.734537	0.7768405		0.9999391	0.995	
d3-N-MeFOSAA	1.894852	5.832011	8.533981	1.308346			20	
d5-N-EtFOSAA	1.482855	8.987748	8.785462	1.260937			20	
d7-N-MeFOSE	0.1096943	9.538321	9.668704	0.7211339			20	
d9-N-EtFOSE	5.742301E-02	7.356046	9.96349	0.5804035			20	
d-N-EtFOSA	0.1903151	10.33302	10.01312	0.575893			20	
d-N-MeFOSA	0.2894869	9.022579	9.706333	0.7114855			20	
HFPO-DA (Gen-X)	2.388122E-02	6.411962	6.156967	0.3209652		0.9996481	0.995	
M2-4:2 FTS	6.326992	31.98058	5.828181	0.3384551			20	*
M2-6:2 FTS	4.309265	36.08813	7.170869	1.065069			20	*
M2-8:2 FTS	6.068952	33.54427	8.28256	1.286257			20	*
M2PFTeDA	1.156149	7.866873	10.01288	0.5529907			20	
M3HFPO-DA	0.2387003	12.51329	6.155542	0.3513022			20	
M3PFBS	5.185494	6.486697	5.154708	0.9019837			20	
M3PFHxS	2.736241	5.94879	6.69831	0.8015715			20	
M4PFHpA	0.2080857	7.159001	6.612394	0.6834055			20	
M5PFHxA	1.507927	3.404123	5.896742	0.3016276			20	
M6PFDA	1.287883	10.7937	8.325208	1.310789			20	
M7PFUdA	2.052925	15.49362	8.807389	1.274563			20	
M9PFNA	0.2662851	5.998683	7.796514	1.281032			20	
N-EtFOSA	1.327838	11.78257	10.02456	0.583553		0.9987898	0.995	
N-EtFOSAA	0.9484482	3.422898	8.795117	1.254374		0.9998723	0.995	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32464.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV1	Injection Time:	09:37

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	13.8	0.7105157	0.801354		46.1	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.0	0.1767107	0.2193418		14.8	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.58	0.8242061	0.963997		2.2	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.0	0.9425926	1.215381		16.3	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	61.4	0.1232525	0.1184771		-1.9	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	63.7	0.1140748	0.1209945		1.8	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.3	1.634509E-02	1.709165E-02		-17.7	30
9CL-PF3ONS	A	9.35	13.4	0.9740683	1.120975		42.9	30 *
ADONA	A	9.45	10.6	0.4656269	0.4996449		12.4	30
HFPO-DA (Gen-X)	A	10.0	11.5	2.388122E-02	2.431795E-02		15.0	30
N-EtFOSA	A	2.50	1.69	1.327838	1.021935		-32.5	30 *
N-EtFOSAA	A	2.50	2.39	0.9484482	0.9329515		-4.5	30
N-EtFOSE	A	25.0	28.5	2.103058	2.296047		13.9	30
N-MeFOSA	A	2.50	2.17	0.9774397	0.8980055		-13.1	30
N-MeFOSAA	A	2.50	2.56	0.8340644	0.8872381		2.4	30
N-MeFOSE	A	25.0	28.3	1.016894	1.003413		13.3	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	10.7	1.083962	2.453335		140	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	3.04	0.8640874	0.945087		26.0	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.42	2.706255	2.883255		1.9	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.24	2.040776	2.380384		34.9	30 *
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.89	1.543242	1.71012		15.4	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.29	1.56851	1.470315		-2.4	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	10.7	1.750606E-02	3.756048E-02		115	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32464.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV1	Injection Time:	09:37

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	9.85	0.2760092	0.6133635		96.9	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.8	0.436862	0.9189156		116	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.33	0.9969591	1.055421		4.7	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.49	1.019014	1.048249		-0.2	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.94	0.5852952	0.6183577		21.3	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.89	0.8320389	0.8656897		15.5	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.08	4.129863	3.944506		-16.8	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.34	1.223553	1.16879		2.7	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.56	1.086996	1.076291		2.5	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.53	0.8644747	0.85587		-4.7	30
Perfluorononanoic acid (PFNA)	A	2.50	3.27	3.375915	3.584925		31.0	30 *
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.28	2.158758	2.094077		-1.8	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.60	1.023846	1.050936		3.9	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.67	1.028127	1.003274		-6.5	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.37	1.00277	0.9804968		-5.2	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.98	1.122388	1.346261		19.3	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.71	0.8100826	0.8469304		8.2	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32478.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV2	Injection Time:	13:23

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	14.3	0.7105157	0.8335999		51.8	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.3	0.1767107	0.2067581		7.7	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.59	0.8242061	0.9652128		2.3	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.1	0.9425926	1.2187		16.6	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	67.2	0.1232525	0.1295788		7.3	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	61.8	0.1140748	0.1173349		-1.3	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	9.93	1.634509E-02	0.0164868		-20.6	30
9CL-PF3ONS	A	9.35	14.0	0.9740683	1.17832		50.1	30 *
ADONA	A	9.45	10.3	0.4656269	0.4843555		8.9	30
HFPO-DA (Gen-X)	A	10.0	11.1	2.388122E-02	2.357331E-02		11.5	30
N-EtFOSA	A	2.50	2.12	1.327838	1.284829		-15.0	30
N-EtFOSAA	A	2.50	2.50	0.9484482	0.9750041		-0.2	30
N-EtFOSE	A	25.0	28.6	2.103058	2.307017		14.4	30
N-MeFOSA	A	2.50	2.08	0.9774397	0.8604849		-16.7	30
N-MeFOSAA	A	2.50	2.46	0.8340644	0.8530957		-1.6	30
N-MeFOSE	A	25.0	26.1	1.016894	0.9239709		4.4	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	10.6	1.083962	2.438341		139	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.90	0.8640874	0.9037764		20.5	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.33	2.706255	2.769106		-2.2	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.25	2.040776	2.388494		35.3	30 *
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.60	1.543242	1.539138		3.8	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.23	1.56851	1.429796		-5.0	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.36	1.750606E-02	3.283977E-02		87.2	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32478.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV2	Injection Time:	13:23

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	10.2	0.2760092	0.6324465		103	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.9	0.436862	0.9265343		118	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.15	0.9969591	0.9758369		-3.1	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.40	1.019014	1.006889		-4.1	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	2.98	0.5852952	0.6267251		23.0	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.68	0.8320389	0.8025447		7.1	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.18	4.129863	4.144466		-12.6	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.34	1.223553	1.168175		2.6	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.50	1.086996	1.049503		-0.03	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.56	0.8644747	0.858681		-4.4	30
Perfluorononanoic acid (PFNA)	A	2.50	2.58	3.375915	2.813898		3.1	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.38	2.158758	2.187883		2.6	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.50	1.023846	1.012294		0.04	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.71	1.028127	1.010633		-5.9	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.28	1.00277	0.9447301		-8.7	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.41	1.122388	1.089269		-3.6	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	3.23	0.8100826	1.013543		29.4	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32487.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV3	Injection Time:	15:48

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	14.1	0.7105157	0.8178152		49.0	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.4	0.1767107	0.2256059		18.3	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.31	0.8242061	0.93879		-0.7	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	10.2	0.9425926	1.129059		7.4	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	60.6	0.1232525	0.1169838		-3.2	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	62.5	0.1140748	0.1187306		-0.1	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.2	1.634509E-02	0.0169365		-18.4	30
9CL-PF3ONS	A	9.35	12.7	0.9740683	1.062868		35.6	30 *
ADONA	A	9.45	10.2	0.4656269	0.4810799		8.2	30
HFPO-DA (Gen-X)	A	10.0	11.4	2.388122E-02	2.416367E-02		14.3	30
N-EtFOSA	A	2.50	1.95	1.327838	1.178063		-22.1	30
N-EtFOSAA	A	2.50	2.46	0.9484482	0.9607917		-1.6	30
N-EtFOSE	A	25.0	29.7	2.103058	2.393346		18.7	30
N-MeFOSA	A	2.50	2.09	0.9774397	0.8645595		-16.3	30
N-MeFOSAA	A	2.50	2.68	0.8340644	0.928836		7.2	30
N-MeFOSE	A	25.0	27.8	1.016894	0.984623		11.2	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	10.5	1.083962	2.408547		136	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	3.04	0.8640874	0.9473303		26.3	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.43	2.706255	2.887264		2.0	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.91	2.040776	2.138472		21.1	30
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.96	1.543242	1.75704		18.6	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.33	1.56851	1.496028		-0.7	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.57	1.750606E-02	3.356959E-02		91.4	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32487.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV3	Injection Time:	15:48

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	9.75	0.2760092	0.6071784		94.9	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	10.9	0.436862	0.9236541		117	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.17	0.9969591	0.9855626		-2.2	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.54	1.019014	1.068439		1.7	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	3.05	0.5852952	0.6422358		26.0	30
Perfluorododecanoic acid (PFDoA)	A	2.50	2.74	0.8320389	0.819886		9.4	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.23	4.129863	4.234341		-10.7	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.30	1.223553	1.149261		0.9	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.52	1.086996	1.056731		0.7	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.66	0.8644747	0.8679733		-3.4	30
Perfluorononanoic acid (PFNA)	A	2.50	2.65	3.375915	2.89081		5.9	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.29	2.158758	2.102584		-1.4	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.50	1.023846	1.012114		0.02	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.74	1.028127	1.017565		-5.2	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.57	1.00277	1.063735		2.8	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.58	1.122388	1.163878		3.0	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.82	0.8100826	0.8825811		12.8	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32498.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV4	Injection Time:	18:54

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	12.8	0.7105157	0.7429144		35.8	30 *
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	12.3	0.1767107	0.2427427		28.1	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.40	0.8242061	0.9465808		0.2	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	11.4	0.9425926	1.251177		20.0	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	60.3	0.1232525	0.1163135		-3.7	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	58.6	0.1140748	0.1113777		-6.4	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.0	1.634509E-02	1.661158E-02		-20.0	30
9CL-PF3ONS	A	9.35	12.0	0.9740683	1.003892		28.2	30
ADONA	A	9.45	10.4	0.4656269	0.4874827		9.6	30
HFPO-DA (Gen-X)	A	10.0	11.1	2.388122E-02	2.336423E-02		10.5	30
N-EtFOSA	A	2.50	2.28	1.327838	1.377953		-8.9	30
N-EtFOSAA	A	2.50	2.42	0.9484482	0.9471087		-3.0	30
N-EtFOSE	A	25.0	26.0	2.103058	2.099711		4.1	30
N-MeFOSA	A	2.50	2.41	0.9774397	0.9947592		-3.7	30
N-MeFOSAA	A	2.50	2.62	0.8340644	0.9094707		4.9	30
N-MeFOSE	A	25.0	27.6	1.016894	0.9794282		10.6	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	10.4	1.083962	2.377781		133	30 *
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	3.18	0.8640874	0.9884261		31.8	30 *
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.59	2.706255	3.084331		9.0	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	3.09	2.040776	2.26983		28.6	30
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.90	1.543242	1.719673		16.1	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.25	1.56851	1.44162		-4.3	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	9.30	1.750606E-02	3.263146E-02		86.0	30 *

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	LCQQQ	Calibration:	SJ30009
Lab File ID:	QQQ32498.d	Calibration Date:	10/02/23 08:00
Sequence:	S3K2254	Injection Date:	11/22/23
Lab Sample ID:	S3K2254-CCV4	Injection Time:	18:54

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Perfluoro-4-oxapentanoic acid (PFMPA)	A	5.00	10.1	0.2760092	0.6269926		101	30 *
Perfluoro-5-oxahexanoic acid (PFMBA)	A	5.00	11.2	0.436862	0.9481929		123	30 *
Perfluorobutanesulfonic acid (PFBS)	A	2.22	2.12	0.9969591	0.9612026		-4.6	30
Perfluorodecanoic acid (PFDA)	A	2.50	2.45	1.019014	1.029771		-2.0	30
Perfluorododecanesulfonic acid (PFDoS)	A	2.42	3.34	0.5852952	0.7037631		38.1	30 *
Perfluorododecanoic acid (PFDoA)	A	2.50	3.18	0.8320389	0.9526907		27.0	30
Perfluoroheptanoic acid (PFHpA)	A	2.50	2.11	4.129863	4.004897		-15.6	30
Perfluorohexanesulfonic acid (PFHxS)	A	2.28	2.21	1.223553	1.104851		-2.9	30
Perfluorohexanoic acid (PFHxA)	A	2.50	2.49	1.086996	1.046867		-0.3	30
Perfluoro-n-butanoic acid (PFBA)	A	10.0	9.60	0.8644747	0.8627686		-4.0	30
Perfluorononanoic acid (PFNA)	A	2.50	2.79	3.375915	3.047319		11.6	30
Perfluorooctanesulfonic acid (PFOS)	A	2.32	2.54	2.158758	2.330713		9.3	30
Perfluorooctanoic acid (PFOA)	A	2.50	2.78	1.023846	1.123034		11.0	30
Perfluoropentanoic acid (PFPeA)	A	5.00	4.80	1.028127	1.031389		-3.9	30
Perfluorotetradecanoic acid (PFTA)	A	2.50	2.29	1.00277	0.9482163		-8.3	30
Perfluorotridecanoic acid (PFTrDA)	A	2.50	2.71	1.122388	1.225241		8.5	30
Perfluoroundecanoic acid (PFUnA)	A	2.50	2.35	0.8100826	0.734823		-6.0	30

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019819.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2247	Injection Date:	11/21/23
Lab Sample ID:	S3K2247-CCV1	Injection Time:	08:36

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	49.0	9158312	7666000		-2.1	20	
4,4'-DDD [2C]	A	50.0	50.1	3.250519E+07	2.7482E+07		0.2	20	
4,4'-DDE	A	50.0	44.4	1.338246E+07	9944000		-11.2	20	
4,4'-DDE [2C]	A	50.0	45.6	4.508564E+07	3.512E+07		-8.7	20	
4,4'-DDT	A	50.0	55.2	7707795	7274000		10.5	20	
4,4'-DDT [2C]	A	50.0	53.6	2.733238E+07	2.468E+07		7.3	20	
Aldrin	A	50.0	48.2	1.322831E+07	1.1142E+07		-3.6	20	
Aldrin [2C]	A	50.0	47.0	4.948496E+07	4.1282E+07		-6.0	20	
alpha-BHC	A	50.0	49.3	1.467668E+07	1.2674E+07		-1.4	20	
alpha-BHC [2C]	A	50.0	49.1	5.604657E+07	4.8188E+07		-1.8	20	
alpha-Chlordane	A	50.0	48.1	1.214063E+07	9668000		-3.8	20	
alpha-Chlordane [2C]	A	50.0	47.0	4.380421E+07	3.4682E+07		-6.0	20	
beta-BHC	A	50.0	47.0	5943993	4452000		-6.0	20	
beta-BHC [2C]	A	50.0	46.7	2.118345E+07	1.6054E+07		-6.6	20	
delta-BHC	A	50.0	51.5	1.221956E+07	1.1112E+07		3.0	20	
delta-BHC [2C]	A	50.0	51.6	4.494735E+07	4.1046E+07		3.2	20	
Dieldrin	A	50.0	47.8	1.223139E+07	1.0068E+07		-4.4	20	
Dieldrin [2C]	A	50.0	47.1	4.451832E+07	3.6404E+07		-5.9	20	
Endosulfan I	A	50.0	48.1	1.068283E+07	8686000		-3.7	20	
Endosulfan I [2C]	A	50.0	47.3	3.866024E+07	3.1138E+07		-5.3	20	
Endosulfan II	A	50.0	50.1	9217505	7812000		0.2	20	
Endosulfan II [2C]	A	50.0	49.9	3.319693E+07	2.8148E+07		-0.1	20	
Endosulfan sulfate	A	50.0	50.3	9052996	7530000		0.6	20	
Endosulfan sulfate [2C]	A	50.0	50.6	3.00675E+07	2.541E+07		1.1	20	
Endrin	A	50.0	48.3	1.028641E+07	8560000		-3.3	20	
Endrin [2C]	A	50.0	49.6	3.577612E+07	2.959E+07		-0.9	20	
Endrin aldehyde	A	50.0	48.5	7879151	5802000		-3.1	20	
Endrin aldehyde [2C]	A	50.0	49.3	2.554737E+07	1.9784E+07		-1.4	20	
Endrin ketone	A	50.0	70.6	7194733	8620000		41.3	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019819.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2247	Injection Date:	11/21/23
Lab Sample ID:	S3K2247-CCV1	Injection Time:	08:36

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	A	50.0	70.0	2.368715E+07	2.8488E+07		40.1	20 *
gamma-BHC (Lindane)	A	50.0	50.2	1.277498E+07	1.1044E+07		0.3	20
gamma-BHC (Lindane) [2C]	A	50.0	49.7	4.863623E+07	4.1956E+07		-0.6	20
gamma-Chlordane	A	50.0	48.6	1.17451E+07	9700000		-2.8	20
gamma-Chlordane [2C]	A	50.0	47.7	4.392721E+07	3.573E+07		-4.5	20
Heptachlor	A	50.0	53.9	1.077154E+07	1.0042E+07		7.7	20
Heptachlor [2C]	A	50.0	52.5	3.91582E+07	3.645E+07		5.0	20
Heptachlor epoxide	A	50.0	48.2	1.141962E+07	9380000		-3.6	20
Heptachlor epoxide [2C]	A	50.0	47.4	4.115635E+07	3.3966E+07		-5.1	20
Methoxychlor	A	50.0	57.0	4344117	3972000		14.0	20
Methoxychlor [2C]	A	50.0	56.6	1.297123E+07	1.2124E+07		13.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019846.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2247	Injection Date:	11/22/23
Lab Sample ID:	S3K2247-CCV4	Injection Time:	00:08

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	57.3	9158312	9188000		14.6	20	
4,4'-DDD [2C]	A	50.0	56.3	3.250519E+07	3.1572E+07		12.6	20	
4,4'-DDE	A	50.0	48.5	1.338246E+07	1.0982E+07		-3.1	20	
4,4'-DDE [2C]	A	50.0	49.6	4.508564E+07	3.8628E+07		-0.9	20	
4,4'-DDT	A	50.0	55.2	7707795	7272000		10.5	20	
4,4'-DDT [2C]	A	50.0	52.8	2.733238E+07	2.422E+07		5.6	20	
Aldrin	A	50.0	52.9	1.322831E+07	1.2374E+07		5.7	20	
Aldrin [2C]	A	50.0	50.4	4.948496E+07	4.4758E+07		0.9	20	
alpha-BHC	A	50.0	53.8	1.467668E+07	1.4024E+07		7.5	20	
alpha-BHC [2C]	A	50.0	52.3	5.604657E+07	5.1968E+07		4.5	20	
alpha-Chlordane	A	50.0	53.4	1.214063E+07	1.0896E+07		6.7	20	
alpha-Chlordane [2C]	A	50.0	51.2	4.380421E+07	3.8372E+07		2.4	20	
beta-BHC	A	50.0	51.7	5943993	4974000		3.5	20	
beta-BHC [2C]	A	50.0	50.1	2.118345E+07	1.7424E+07		0.1	20	
delta-BHC	A	50.0	56.0	1.221956E+07	1.228E+07		11.9	20	
delta-BHC [2C]	A	50.0	54.9	4.494735E+07	4.4334E+07		9.8	20	
Dieldrin	A	50.0	53.6	1.223139E+07	1.146E+07		7.1	20	
Dieldrin [2C]	A	50.0	51.5	4.451832E+07	4.04E+07		3.1	20	
Endosulfan I	A	50.0	53.6	1.068283E+07	9818000		7.2	20	
Endosulfan I [2C]	A	50.0	51.6	3.866024E+07	3.4394E+07		3.3	20	
Endosulfan II	A	50.0	56.4	9217505	8960000		12.8	20	
Endosulfan II [2C]	A	50.0	54.5	3.319693E+07	3.116E+07		8.9	20	
Endosulfan sulfate	A	50.0	55.4	9052996	8420000		10.8	20	
Endosulfan sulfate [2C]	A	50.0	53.4	3.00675E+07	2.7148E+07		6.8	20	
Endrin	A	50.0	53.5	1.028641E+07	9598000		6.9	20	
Endrin [2C]	A	50.0	53.4	3.577612E+07	3.2262E+07		6.9	20	
Endrin aldehyde	A	50.0	53.7	7879151	6520000		7.5	20	
Endrin aldehyde [2C]	A	50.0	52.4	2.554737E+07	2.1228E+07		4.8	20	
Endrin ketone	A	50.0	76.8	7194733	9600000		53.5	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K0980
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019846.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2247	Injection Date:	11/22/23
Lab Sample ID:	S3K2247-CCV4	Injection Time:	00:08

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Endrin ketone [2C]	A	50.0	74.2	2.368715E+07	3.08E+07		48.3	20 *
gamma-BHC (Lindane)	A	50.0	55.3	1.277498E+07	1.2372E+07		10.5	20
gamma-BHC (Lindane) [2C]	A	50.0	53.0	4.863623E+07	4.5314E+07		5.9	20
gamma-Chlordane	A	50.0	54.4	1.17451E+07	1.1058E+07		8.8	20
gamma-Chlordane [2C]	A	50.0	52.1	4.392721E+07	3.965E+07		4.3	20
Heptachlor	A	50.0	57.6	1.077154E+07	1.0858E+07		15.3	20
Heptachlor [2C]	A	50.0	53.4	3.91582E+07	3.7216E+07		6.9	20
Heptachlor epoxide	A	50.0	53.7	1.141962E+07	1.0592E+07		7.4	20
Heptachlor epoxide [2C]	A	50.0	51.6	4.115635E+07	3.733E+07		3.1	20
Methoxychlor	A	50.0	56.6	4344117	3936000		13.1	20
Methoxychlor [2C]	A	50.0	56.3	1.297123E+07	1.2044E+07		12.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

STANDARD REFERENCE MATERIAL RECOVERY

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Matrix: Soil
Batch: BK31472
Laboratory ID: BK31472-SRM1
Preparation: EPA 3050B
Initial/Final: 0.6 g / 50 mL

ANALYTE	TRUE (mg/kg wet)	FOUND (mg/kg wet)	SRM % REC.	QC LIMITS REC.
Aluminum	9490	8240	86.9	45.4 - 128.6
Antimony	248	69.0	27.8	3 - 103.2
Arsenic	163	137	84.1	68.7 - 100.6
Barium	319	324	102	82.5 - 115.7
Beryllium	119	105	88.6	77.7 - 109.2
Cadmium	130	118	90.8	75.2 - 106.2
Calcium	5000	4860	97.2	80.6 - 114.4
Chromium	153	149	97.6	77.8 - 111.8
Cobalt	153	150	98.0	79.1 - 109.8
Copper	245	254	104	80.4 - 111
Iron	7540	7720	102	69.8 - 144.6
Lead	220	201	91.3	80 - 113.6
Magnesium	1980	2070	105	85.9 - 129.3
Manganese	431	429	99.6	79.6 - 114.2
Nickel	175	170	97.2	76.6 - 108.6
Potassium	1570	1590	101	80.9 - 131.2
Selenium	156	160	102	80.8 - 118.6
Silver	82.9	67.6	81.6	76.7 - 114.7
Sodium	453	471	104	72.2 - 119.7
Thallium	99.4	82.8	83.3	75.8 - 110.7
Vanadium	170	157	92.4	75.3 - 114.1
Zinc	201	373	185 *	79.6 - 115.92

* Values outside of QC limits

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC

Instrument ID: AvioICP Project: 220293 100 E. 149th St. Bronx, NY

Sequence: S3K2255 Calibration: 11/22/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
BK31472-BLK1	Lead	0.536	0.417	mg/kg wet	*	EPA 6010D
	Magnesium	-0.407	4.17	mg/kg wet		EPA 6010D
	Manganese	-0.005	0.417	mg/kg wet		EPA 6010D
	Nickel	0.008	0.830	mg/kg wet		EPA 6010D
	Potassium	-3.82	4.17	mg/kg wet		EPA 6010D
	Selenium	-0.172	2.08	mg/kg wet		EPA 6010D
	Silver	-0.002	0.420	mg/kg wet		EPA 6010D
	Sodium	-9.10	41.7	mg/kg wet		EPA 6010D
	Thallium	0.051	2.08	mg/kg wet		EPA 6010D
	Vanadium	-0.010	0.830	mg/kg wet		EPA 6010D
	Zinc	-0.030	2.08	mg/kg wet		EPA 6010D
S3K2255-CCB5	Aluminum	-0.0008	0.050	ug/mL		EPA 6010D
	Antimony	0.009	0.025	ug/mL		EPA 6010D
	Arsenic	-0.005	0.015	ug/mL		EPA 6010D
	Barium	-0.0007	0.025	ug/mL		EPA 6010D
	Beryllium	0.00007	0.0005	ug/mL		EPA 6010D
	Cadmium	-0.0003	0.003	ug/mL		EPA 6010D
	Calcium	-0.0003	0.050	ug/mL		EPA 6010D
	Chromium	0.0002	0.005	ug/mL		EPA 6010D
	Cobalt	-0.001	0.004	ug/mL		EPA 6010D
	Copper	-0.0004	0.020	ug/mL		EPA 6010D
	Iron	-0.0007	0.250	ug/mL		EPA 6010D
	Lead	0.007	0.005	ug/mL	*	EPA 6010D
	Magnesium	-0.003	0.050	ug/mL		EPA 6010D
	Manganese	-0.00007	0.005	ug/mL		EPA 6010D
	Nickel	-0.0002	0.010	ug/mL		EPA 6010D
	Potassium	-0.081	0.050	ug/mL		EPA 6010D
	Selenium	-0.004	0.025	ug/mL		EPA 6010D
	Silver	0.0001	0.005	ug/mL		EPA 6010D
	Sodium	-0.097	0.500	ug/mL		EPA 6010D
	Thallium	-0.002	0.025	ug/mL		EPA 6010D
	Vanadium	0.0002	0.010	ug/mL		EPA 6010D
	Zinc	0.0006	0.025	ug/mL		EPA 6010D

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K0980
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/22/23
Control Limt: +/- 10.00%
Sequence: S3K2255

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3K2255-ICV1	Aluminum	10.0	9.96	99.6	ug/mL	EPA 6010D
	Antimony	0.250	0.276	110	ug/mL	EPA 6010D
	Arsenic	0.250	0.247	99.0	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.255	102	ug/mL	EPA 6010D
	Cadmium	0.125	0.132	106	ug/mL	EPA 6010D
	Calcium	25.0	25.2	101	ug/mL	EPA 6010D
	Chromium	1.00	1.02	102	ug/mL	EPA 6010D
	Cobalt	2.50	2.58	103	ug/mL	EPA 6010D
	Copper	1.25	1.27	102	ug/mL	EPA 6010D
	Iron	5.00	5.09	102	ug/mL	EPA 6010D
	Lead	0.250	0.266	107	ug/mL	EPA 6010D
	Magnesium	25.0	25.3	101	ug/mL	EPA 6010D
	Manganese	2.50	2.56	102	ug/mL	EPA 6010D
	Nickel	2.50	2.59	104	ug/mL	EPA 6010D
	Potassium	25.0	24.9	99.4	ug/mL	EPA 6010D
	Selenium	0.250	0.261	104	ug/mL	EPA 6010D
	Silver	1.25	1.26	101	ug/mL	EPA 6010D
	Sodium	25.0	24.5	98.0	ug/mL	EPA 6010D
	Thallium	0.250	0.285	114 *	ug/mL	EPA 6010D
	Vanadium	2.50	2.54	102	ug/mL	EPA 6010D
	Zinc	2.50	2.54	101	ug/mL	EPA 6010D
S3K2255-CCV1	Aluminum	10.0	10.1	101	ug/mL	EPA 6010D
	Antimony	0.250	0.247	99.0	ug/mL	EPA 6010D
	Arsenic	0.500	0.508	102	ug/mL	EPA 6010D
	Barium	10.0	10.3	103	ug/mL	EPA 6010D
	Beryllium	0.250	0.259	104	ug/mL	EPA 6010D
	Cadmium	0.250	0.256	103	ug/mL	EPA 6010D
	Calcium	25.0	25.3	101	ug/mL	EPA 6010D
	Chromium	1.00	1.02	102	ug/mL	EPA 6010D
	Cobalt	2.50	2.58	103	ug/mL	EPA 6010D
	Copper	1.25	1.28	103	ug/mL	EPA 6010D
	Iron	5.00	5.12	102	ug/mL	EPA 6010D
	Lead	0.500	0.510	102	ug/mL	EPA 6010D
	Magnesium	25.0	25.4	102	ug/mL	EPA 6010D
	Manganese	2.50	2.57	103	ug/mL	EPA 6010D
	Nickel	2.50	2.59	104	ug/mL	EPA 6010D

HOLDING TIME SUMMARY

EPA 9045D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K0980

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
23SP5 (15-17.5 ft)	11/13/23 09:50	11/14/23 17:00	12/18/23 14:47	35.21	7.00	12/18/23 22:53	35.54	7.00	*

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: 23K1273
6 Water Samples, 1 Trip Blank, and 1 Field Blank

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K1273 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K1273, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/7/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 17, 2023
SAMPLE TYPE:	6 water samples, 1 trip blank and 1 field blank
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K1273

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 6 water samples, 1 trip blank, and 1 field blank collected on November 17, 2023. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), SVOCs-SIM, 1,4-Dioxane, Pesticides, PCBs, Metals (total and dissolved), Hexavalnet Chromium (Cr+6), and Total Cyanide (TCN).

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K1273. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Tables 6-1 through 6-10. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K1273, eight samples were analyzed and results were reported for 1378 analytes. Twenty results were rejected. Even though some results were flagged with a "J" as estimated, all other results (98.5 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Note; 1) Due to a laboratory error, Pentachlorophenol has not been reported by either SVOC method, 8270D or 8270D SIM. No data validation criteria have been violated, but if this is a compound of interest, the laboratory should be contacted.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	1,4-Dioxane	J detects R non-detects	ICAL RF < 0.005	Since all results are non-detect, the results are rejected
23MW1 23MW3 23MW8	DBCP 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Bromoform	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated
23MW2 23MW9 23MW10 Trip Blank Field Blank	2-Butanone 2-Hexanone Bromoform	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated
23MW1	Acetone Bromomethane Tetrachloroethene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated
23MW2 23MW9 23MW10 Trip Blank Field Blank	Acetone Acrolein Bromomethane Chloroethane Tetrachloroethene Trichlorofluoromethane	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated
23MW3 23MW8	Acetone Bromomethane Tetrachloroethene	J detects UJ non-detects	ICV and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated

23MW1	Styrene	NJ detects	Relative intensity < 70%	Data are tentitvely identified and estimated
23MW9	n-Butylbenzene	NJ detects	Relative intensity < 70%	Data are tentitvely identified and estimated

Table 6-2 SVOCs - Scan

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	All analytes	J detects UJ non-detects	Samples were extracted outside holding time	Data are estimated
23MW1 23MW2 23MW3 23MW8 23MW9 23MW10	2,4-Dinitrophenol	J detects R non-detects	CCV % D > 90 %	Since all results are non-detect, the results are rejected
23MW1 23MW2 23MW3 23MW8 23MW9 23MW10	2,4-Dinitrotoluene 2,6-Dinitrotoluene 4,6-Dinitro-2-methylphenol 4-Bromophenyl phenyl ether 4-Nitrophenol Benzoic acid Benzyl butyl phthalate Di-n-octyl phthalate	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-3 SVOCs - SIM

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	All analytes	J detects UJ non-detects	Samples were extracted outside holding time	Data are estimated
All samples	N-Nitrosodimethylamine	J detects R non-detects	LCS rec< 0%	Since all results are non-detect, the results are rejected
All samples	Acenanphthene Acenaphthylene Antracene Chrysene Fluoranthene Fluorene Naphthalene Phenanthrene Pyrene	J detects UJ non-detects	ICAL % RSD > QC limit	Data are estimated

Table 6-4 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	Endrin ketone Toxaphene	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-6 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	PCB 1016 PCB 1260	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-7 ICP/MS Metals (total and dissolved)

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW1 23MW2 23MW3 23MW8 23MW9 23MW10	Be and Be (dissolved)	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low
23MW1 23MW2 23MW3 23MW8 23MW9 23MW10	Sb	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low

23MW3 23MW8 23MW9 23MW10	Sb (dissolved)	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low
23MW1	Cd (dissolved)	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low
All samples	Se and Se (dissoved)	J detects	Analyte detected in method blank and Interference check > QC limits	Data are estimated

Table 6-8 ICP Metals (total and dissolved)

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW1 23MW2 23MW3 23MW8 23MW9 23MW10	Na and Na (dissolved)	J+ detects	LCS rec > QC limit	Data are biased high
23MW1 23MW2 23MW3 23MW8 23MW9 23MW10	Zn and Zn (dissolved)	J- detects UJ non-detects	CRDL Std < QC limits	Data are biased low

Table 6-9 Mercury (total and dissolved)

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-10 Cr+6 and TCN

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW10	Cr+6	J- detects UJ non-detects	MS/MSD rec < QC limit	Data are biased low

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/29/2023
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K1273

Work Order Narrative

York Analytical Work Order No.: 23K1273

Client : Touchstone Environmental Geology, PC

Client Project ID : 220293 100 E. 149th St. Bronx, NY

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/17/2023 8:00 PM

8 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{3.9}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23MW1	23K1273-01	Water	11/17/2023 11:50 AM	11/17/2023 8:00 PM
23MW2	23K1273-02	Water	11/17/2023 1:55 PM	11/17/2023 8:00 PM
23MW3	23K1273-03	Water	11/17/2023 2:30 PM	11/17/2023 8:00 PM
23MW8	23K1273-04	Water	11/17/2023 8:20 AM	11/17/2023 8:00 PM
23MW9	23K1273-05	Water	11/17/2023 9:45 AM	11/17/2023 8:00 PM
23MW10	23K1273-06	Water	11/17/2023 11:05 AM	11/17/2023 8:00 PM
Trip Blank	23K1273-07	Water	11/17/2023 3:00 PM	11/17/2023 8:00 PM
Field Blank	23K1273-08	Water	11/17/2023 3:00 PM	11/17/2023 8:00 PM

WorkOrder Comments

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3535A	EPA 8270D SIM
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3015A	EPA 6010D
METALS	EPA 3015A	EPA 6020B
HG	EPA SW846-7470A	EPA 7470
WET	Analysis Preparation	Calculation
WET	Analysis Preparation	EPA 7196A
WET	Analysis Preparation	SM 4500 CN C-2016 / E-20

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K1273

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th St. Bronx, NY

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Firat Ataman

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York ✓
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; CT RCP; Standard Excel EDD
QA Report; CT RCP DQA/DUE; EQuIS (Standard)
NY ASP A Package; NJDEP Reduced Deliverables; NYSDEC EQuIS
NY ASP B Package; NJDEP SRP HazSite
NJDKQP; Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
23MW1	GW	11/17/23 11:50	TCL+10 VOCs and TICs, TCL+20 SVOCs and	4 ambers
23MW2	↓	13:55	TICs, Pesticide/PCBs via EPA Method	4 plastic
23MW3		14:30	8081/8082, 21 PFAS compounds via EPA Method	3 vials
23MW8		8:20	1633, 1,4-dioxane via EPA Method 8270SIM,	↓
23MW9		9:45	TAL Metals (filtered and unfiltered) + Cyanide	
23MW10	↓	11:05	and Hexavalent Chromium	↓
			↓	
Trip Blank	0			2 vials
Field Blank	0			3 vials

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	11/17 1500	Roman York	11/17 1500	Roman York	11/17 20:00
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				11/17/23 20:00	3.9 Degrees C

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: VOA

METHOD: EPA 8260D

DATA PACKAGE COVER PAGE

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW1	23K1273-01RE1
23MW2	23K1273-02
23MW3	23K1273-03
23MW3	23K1273-03RE1
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06
Trip Blank	23K1273-07
Field Blank	23K1273-08

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/28/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: V10C021815.D

Sampled: 11/17/23 11:50 Prepared: 11/22/23 09:00 Analyzed: 11/22/23 18:27

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31486 Sequence: S3K2719 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	UJ
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	34		
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	UJ
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	49		
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	65		
124-48-1	Dibromochloromethane	1	0.50	U	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: V10C021815.D

Sampled: 11/17/23 11:50 Prepared: 11/22/23 09:00 Analyzed: 11/22/23 18:27

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31486 Sequence: S3K2719 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	8.4		
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	80		
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	3.1		
103-65-1	n-Propylbenzene	1	21		
95-47-6	o-Xylene	1	19		
179601-23-1	p- & m- Xylenes	1	150		
99-87-6	p-Isopropyltoluene	1	2.1		
135-98-8	sec-Butylbenzene	1	2.4		
100-42-5	Styrene	1	0.59		NJ
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	26		
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	170		

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	7.93	79.3	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	650606	6.45	446020	6.447	
ISTD: Chlorobenzene-d5	1514296	9.508	1547736	9.511	
ISTD: 1,2-Dichlorobenzene-d4	537476	12.527	553952	12.527	

* Values outside of QC limits

MKP 2/7/2024

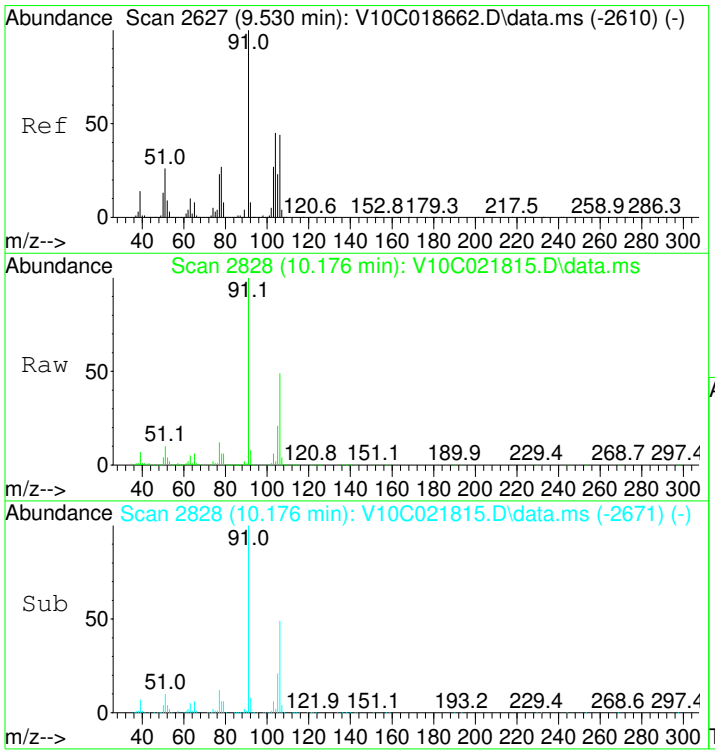
Quantitation Report (QT/LSC Reviewed)

Data File : V10C021815.D
Data Path : C:\msdchem\1\data\V10112223A\
Acq On : 22 Nov 2023 6:27 pm
Operator : SMA
Sample : 23K1273-01
Misc : QBV10-112223A 8260 COMP+TIC A Multiplr: 1.00
ALS Vial : 22
InstName : VOA No. 10
DataAcq Meth:VOA10ACQ.M

Quant Time: Nov 27 09:35:03 2023
QMeth File : V10-111323A.M
Quant Method : C:\msdchem\1\methods\V10-111323A.M
Quant Title : Volatile Organics EPA 8260C & 8260D & 624.1
QLast Update : Tue Nov 14 09:35:52 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	6.450	70	650606	10.00	ppb		0.00
45) CHLOROBENZENE-d5 (ISTD)	9.508	117	1514296	10.00	ppb		0.00
74) 1,2-DICHLOROBENZENE-d4...	12.527	152	537476	10.00	ppb		0.00
System Monitoring Compounds							
39) d4-1,2-Dichloroethane ...	6.173	65	424354	7.93	ppb		0.00
Spiked Amount 10.000	Range 69 - 130		Recovery = 79.30%				
57) Toluene-d8 (SURR)	7.980	98	2173642	10.22	ppb		0.00
Spiked Amount 10.000	Range 81 - 117		Recovery = 102.20%				
77) p-Bromofluorobenzene (...	10.784	95	664664	10.52	ppb		0.00
Spiked Amount 10.000	Range 79 - 122		Recovery = 105.20%				
Target Compounds							Qvalue
37) Cyclohexane	5.833	56	7605079	65.11	ppb		89
43) Benzene	6.186	78	12377228	49.19	ppb		93
47) Methyl Cyclohexane	6.926	83	6252080	79.52	ppb	#	88
58) Toluene	8.051	91	4461268	26.22	ppb		98
69) Ethyl Benzene	9.611	91	16284969	85.12	ppb		100
70) p- & m-Xylenes	9.723	91	21237442m	149.84	ppb		
71) o-Xylene	10.176	91	2652118	18.62	ppb		97
72) Styrene	10.176	104	66256	0.59	ppb	#	1
75) p-Ethyltoluene	11.131	105	4352211m	24.24	ppb		
76) Isopropylbenzene	10.556	105	1601262	8.44	ppb		98
82) n-Propylbenzene	11.012	91	4633626	21.14	ppb		99
85) 1,3,5-Trimethylbenzene	11.199	105	4647530	33.70	ppb	#	53
87) 1,2,4-Trimethylbenzene	11.633	105	15729269	118.44	ppb		98
88) sec-Butylbenzene	11.813	105	437512m	2.43	ppb		
90) p-Isopropyltoluene	11.971	119	305878	2.08	ppb	#	92
92) 1,2,3-Trimethylbenzene	12.125	105	4971580	43.08	ppb		98
93) p-Diethylbenzene	12.401	105	1251558m	16.93	ppb		
95) n-Butylbenzene	12.440	91	421296	3.08	ppb	#	60
98) 1,2,4,5-Tetramethylben...	13.311	119	1123849	13.35	ppb		99
102) Naphthalene	14.684	128	457857	15.77	ppb		99

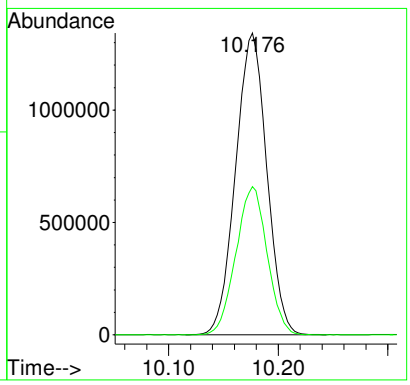
(#) = qualifier out of range (m) = manual integration (+) = signals summed

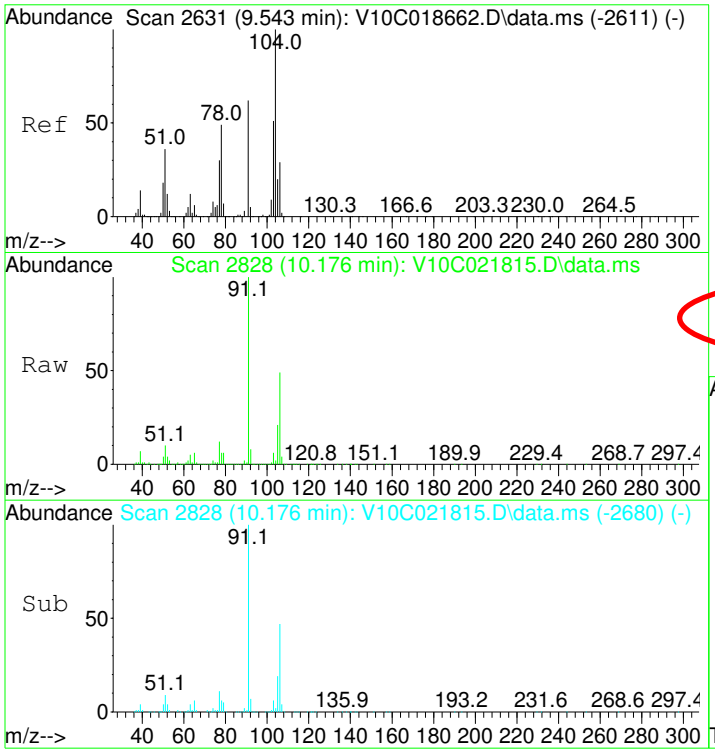


#71
o-Xylene
Concen: 18.62 ppb
RT: 10.176 min Scan# 2828
Delta R.T. 0.003 min
Lab File: V10C021815.D
Acq: 22 Nov 2023 6:27 pm

Tgt Ion: 91 Resp: 2652118

Ion	Ratio	Lower	Upper
91	100		
106	49.2	33.3	69.1

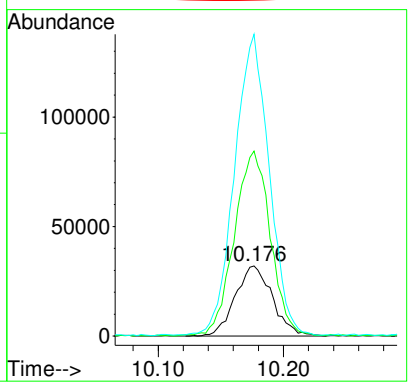




#72
Styrene
Concen: 0.59 ppb
RT: 10.176 min Scan# 2828
Delta R.T. -0.026 min
Lab File: V10C021815.D
Acq: 22 Nov 2023 6:27 pm

Tgt Ion:104 Resp: 66256

Ion	Ratio	Lower	Upper
104	100		
78	256.0	27.8	57.6#
51	397.5	19.9	41.3#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-01RE1	File ID:	V10C021829.D
Sampled:	11/17/23 11:50	Prepared:	11/27/23 09:00	Analyzed:	11/27/23 14:11
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK31643	Sequence:	S3K2817	Calibration:	SK30023
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	5	110	D
100-41-4	Ethyl Benzene	5	75	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.97	99.7	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	462469	6.443	444043	6.447	
ISTD: Chlorobenzene-d5	1628613	9.511	1605548	9.511	
ISTD: 1,2-Dichlorobenzene-d4	618055	12.527	597821	12.524	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: V841470.D

Sampled: 11/17/23 13:55 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 12:32

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	50	25	U	
71-55-6	1,1,1-Trichloroethane	50	25	U	
79-34-5	1,1,2,2-Tetrachloroethane	50	25	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50	25	U	
79-00-5	1,1,2-Trichloroethane	50	25	U	
75-34-3	1,1-Dichloroethane	50	25	U	
75-35-4	1,1-Dichloroethylene	50	25	U	
87-61-6	1,2,3-Trichlorobenzene	50	25	U	
96-18-4	1,2,3-Trichloropropane	50	25	U	
120-82-1	1,2,4-Trichlorobenzene	50	25	U	
95-63-6	1,2,4-Trimethylbenzene	50	880	D	
96-12-8	1,2-Dibromo-3-chloropropane	50	25	U	
106-93-4	1,2-Dibromoethane	50	25	U	
95-50-1	1,2-Dichlorobenzene	50	25	U	
107-06-2	1,2-Dichloroethane	50	25	U	
78-87-5	1,2-Dichloropropane	50	25	U	
108-67-8	1,3,5-Trimethylbenzene	50	260	D	
541-73-1	1,3-Dichlorobenzene	50	25	U	
106-46-7	1,4-Dichlorobenzene	50	25	U	
123-91-1	1,4-Dioxane	50	~~2000~~	U	R
78-93-3	2-Butanone	50	25	U	UJ
591-78-6	2-Hexanone	50	25	U	UJ
108-10-1	4-Methyl-2-pentanone	50	25	U	UJ
67-64-1	Acetone	50	100	U	UJ
107-02-8	Acrolein	50	25	U	UJ
107-13-1	Acrylonitrile	50	25	U	
71-43-2	Benzene	50	760	D	
74-97-5	Bromochloromethane	50	25	U	
75-27-4	Bromodichloromethane	50	25	U	
75-25-2	Bromoform	50	25	U	UJ
74-83-9	Bromomethane	50	25	U	UJ
75-15-0	Carbon disulfide	50	25	U	
56-23-5	Carbon tetrachloride	50	25	U	
108-90-7	Chlorobenzene	50	25	U	
75-00-3	Chloroethane	50	25	U	UJ
67-66-3	Chloroform	50	25	U	
74-87-3	Chloromethane	50	25	U	
156-59-2	cis-1,2-Dichloroethylene	50	25	U	
10061-01-5	cis-1,3-Dichloropropylene	50	25	U	
110-82-7	Cyclohexane	50	590	D	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: V841470.D

Sampled: 11/17/23 13:55 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 12:32

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	50	25	U	
74-95-3	Dibromomethane	50	25	U	
75-71-8	Dichlorodifluoromethane	50	25	U	
100-41-4	Ethyl Benzene	50	1200	D	
87-68-3	Hexachlorobutadiene	50	25	U	
98-82-8	Isopropylbenzene	50	86	D	
79-20-9	Methyl acetate	50	25	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	50	25	U	
108-87-2	Methylcyclohexane	50	370	D	
75-09-2	Methylene chloride	50	100	U	
104-51-8	n-Butylbenzene	50	46	D	
103-65-1	n-Propylbenzene	50	230	D	
95-47-6	o-Xylene	50	40	D	
179601-23-1	p- & m- Xylenes	50	340	D	
99-87-6	p-Isopropyltoluene	50	25	U	
135-98-8	sec-Butylbenzene	50	16	JD	
100-42-5	Styrene	50	25	U	
75-65-0	tert-Butyl alcohol (TBA)	50	50	U	
98-06-6	tert-Butylbenzene	50	25	U	
127-18-4	Tetrachloroethylene	50	25	U	UJ
108-88-3	Toluene	50	150	D	
156-60-5	trans-1,2-Dichloroethylene	50	25	U	
10061-02-6	trans-1,3-Dichloropropylene	50	25	U	
110-57-6	trans-1,4-dichloro-2-butene	50	25	U	
79-01-6	Trichloroethylene	50	25	U	
75-69-4	Trichlorofluoromethane	50	25	U	UJ
75-01-4	Vinyl Chloride	50	25	U	
1330-20-7	Xylenes, Total	50	380	D	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	D
SURR: Toluene-d8	10.0	9.81	98.1	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	9.97	99.7	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	188675	5.791	181970	5.785	
ISTD: Chlorobenzene-d5	745433	8.817	767124	8.812	
ISTD: 1,2-Dichlorobenzene-d4	331217	11.806	346521	11.806	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: V10C021847.D

Sampled: 11/17/23 14:30 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 12:30

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	UJ
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	27		
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	UJ
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	5.5		
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	47		
124-48-1	Dibromochloromethane	1	0.50	U	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: V10C021847.D

Sampled: 11/17/23 14:30 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 12:30

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	42		
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	6.0		
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	67		
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	3.7		
103-65-1	n-Propylbenzene	1	16		
95-47-6	o-Xylene	1	4.8		
179601-23-1	p- & m- Xylenes	1	49		
99-87-6	p-Isopropyltoluene	1	1.8		
135-98-8	sec-Butylbenzene	1	1.8		
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	UJ
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	4.9		
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	54		

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.60	86.0	69 - 130	
SURR: Toluene-d8	10.0	9.92	99.2	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.99	99.9	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	639910	6.447	449729	6.447	
ISTD: Chlorobenzene-d5	1657785	9.511	1638013	9.511	
ISTD: 1,2-Dichlorobenzene-d4	638108	12.524	611954	12.527	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-03RE1	File ID:	V10C021860.D
Sampled:	11/17/23 14:30	Prepared:	11/28/23 09:00	Analyzed:	11/28/23 18:15
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK31755	Sequence:	S3K2916	Calibration:	SK30023
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
95-63-6	1,2,4-Trimethylbenzene	5	83	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	450745	6.447	449729	6.447	
ISTD: Chlorobenzene-d5	1615241	9.508	1638013	9.511	
ISTD: 1,2-Dichlorobenzene-d4	580619	12.527	611954	12.527	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: V10C021848.D

Sampled: 11/17/23 08:20 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 12:57

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	10	5.0	U	
71-55-6	1,1,1-Trichloroethane	10	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	5.0	U	
79-00-5	1,1,2-Trichloroethane	10	5.0	U	
75-34-3	1,1-Dichloroethane	10	5.0	U	
75-35-4	1,1-Dichloroethylene	10	5.0	U	
87-61-6	1,2,3-Trichlorobenzene	10	5.0	U	
96-18-4	1,2,3-Trichloropropane	10	5.0	U	
120-82-1	1,2,4-Trichlorobenzene	10	5.0	U	
95-63-6	1,2,4-Trimethylbenzene	10	3.5	JD	
96-12-8	1,2-Dibromo-3-chloropropane	10	5.0	U	UJ
106-93-4	1,2-Dibromoethane	10	5.0	U	
95-50-1	1,2-Dichlorobenzene	10	5.0	U	
107-06-2	1,2-Dichloroethane	10	5.0	U	
78-87-5	1,2-Dichloropropane	10	5.0	U	
108-67-8	1,3,5-Trimethylbenzene	10	5.0	U	
541-73-1	1,3-Dichlorobenzene	10	5.0	U	
106-46-7	1,4-Dichlorobenzene	10	5.0	U	
123-91-1	1,4-Dioxane	10	~~400~~	U	R
78-93-3	2-Butanone	10	5.0	U	UJ
591-78-6	2-Hexanone	10	5.0	U	UJ
108-10-1	4-Methyl-2-pentanone	10	5.0	U	UJ
67-64-1	Acetone	10	15	JD	J
107-02-8	Acrolein	10	5.0	U	
107-13-1	Acrylonitrile	10	5.0	U	
71-43-2	Benzene	10	5.0	U	
74-97-5	Bromochloromethane	10	5.0	U	
75-27-4	Bromodichloromethane	10	5.0	U	
75-25-2	Bromoform	10	5.0	U	UJ
74-83-9	Bromomethane	10	5.0	U	UJ
75-15-0	Carbon disulfide	10	5.0	U	
56-23-5	Carbon tetrachloride	10	5.0	U	
108-90-7	Chlorobenzene	10	5.0	U	
75-00-3	Chloroethane	10	5.0	U	
67-66-3	Chloroform	10	5.0	U	
74-87-3	Chloromethane	10	5.0	U	
156-59-2	cis-1,2-Dichloroethylene	10	5.0	U	
10061-01-5	cis-1,3-Dichloropropylene	10	5.0	U	
110-82-7	Cyclohexane	10	16	D	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: V10C021848.D

Sampled: 11/17/23 08:20 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 12:57

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	10	5.0	U	
74-95-3	Dibromomethane	10	5.0	U	
75-71-8	Dichlorodifluoromethane	10	5.0	U	
100-41-4	Ethyl Benzene	10	5.0	U	
87-68-3	Hexachlorobutadiene	10	5.0	U	
98-82-8	Isopropylbenzene	10	5.0	U	
79-20-9	Methyl acetate	10	5.0	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	10	5.0	U	
108-87-2	Methylcyclohexane	10	62	D	
75-09-2	Methylene chloride	10	20	U	
104-51-8	n-Butylbenzene	10	5.0	U	
103-65-1	n-Propylbenzene	10	4.3	JD	
95-47-6	o-Xylene	10	2.2	JD	
179601-23-1	p- & m- Xylenes	10	10	U	
99-87-6	p-Isopropyltoluene	10	5.0	U	
135-98-8	sec-Butylbenzene	10	5.0	U	
100-42-5	Styrene	10	5.0	U	
75-65-0	tert-Butyl alcohol (TBA)	10	10	U	UJ
98-06-6	tert-Butylbenzene	10	5.0	U	
127-18-4	Tetrachloroethylene	10	5.0	U	UJ
108-88-3	Toluene	10	5.0	U	
156-60-5	trans-1,2-Dichloroethylene	10	5.0	U	
10061-02-6	trans-1,3-Dichloropropylene	10	5.0	U	
110-57-6	trans-1,4-dichloro-2-butene	10	5.0	U	
79-01-6	Trichloroethylene	10	5.0	U	
75-69-4	Trichlorofluoromethane	10	5.0	U	
75-01-4	Vinyl Chloride	10	5.0	U	
1330-20-7	Xylenes, Total	10	15	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.9	109	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.94	99.4	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	439318	6.45	449729	6.447	
ISTD: Chlorobenzene-d5	1610919	9.511	1638013	9.511	
ISTD: 1,2-Dichlorobenzene-d4	607150	12.524	611954	12.527	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: V841473.D

Sampled: 11/17/23 09:45 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 13:57

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	25	12	U	
71-55-6	1,1,1-Trichloroethane	25	12	U	
79-34-5	1,1,2,2-Tetrachloroethane	25	12	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	25	12	U	
79-00-5	1,1,2-Trichloroethane	25	12	U	
75-34-3	1,1-Dichloroethane	25	12	U	
75-35-4	1,1-Dichloroethylene	25	12	U	
87-61-6	1,2,3-Trichlorobenzene	25	12	U	
96-18-4	1,2,3-Trichloropropane	25	12	U	
120-82-1	1,2,4-Trichlorobenzene	25	12	U	
95-63-6	1,2,4-Trimethylbenzene	25	14	D	
96-12-8	1,2-Dibromo-3-chloropropane	25	12	U	
106-93-4	1,2-Dibromoethane	25	12	U	
95-50-1	1,2-Dichlorobenzene	25	12	U	
107-06-2	1,2-Dichloroethane	25	12	U	
78-87-5	1,2-Dichloropropane	25	12	U	
108-67-8	1,3,5-Trimethylbenzene	25	14	D	
541-73-1	1,3-Dichlorobenzene	25	12	U	
106-46-7	1,4-Dichlorobenzene	25	12	U	
123-91-1	1,4-Dioxane	25	~~1000~~	U	R
78-93-3	2-Butanone	25	12	U	UJ
591-78-6	2-Hexanone	25	12	U	UJ
108-10-1	4-Methyl-2-pentanone	25	12	U	UJ
67-64-1	Acetone	25	50	U	UJ
107-02-8	Acrolein	25	12	U	UJ
107-13-1	Acrylonitrile	25	12	U	
71-43-2	Benzene	25	12	U	
74-97-5	Bromochloromethane	25	12	U	
75-27-4	Bromodichloromethane	25	12	U	
75-25-2	Bromoform	25	12	U	UJ
74-83-9	Bromomethane	25	12	U	UJ
75-15-0	Carbon disulfide	25	12	U	
56-23-5	Carbon tetrachloride	25	12	U	
108-90-7	Chlorobenzene	25	12	U	
75-00-3	Chloroethane	25	12	U	UJ
67-66-3	Chloroform	25	12	U	
74-87-3	Chloromethane	25	12	U	
156-59-2	cis-1,2-Dichloroethylene	25	12	U	
10061-01-5	cis-1,3-Dichloropropylene	25	12	U	
110-82-7	Cyclohexane	25	84	D	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: V841473.D

Sampled: 11/17/23 09:45 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 13:57

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	25	12	U	
74-95-3	Dibromomethane	25	12	U	
75-71-8	Dichlorodifluoromethane	25	12	U	
100-41-4	Ethyl Benzene	25	12	JD	
87-68-3	Hexachlorobutadiene	25	12	U	
98-82-8	Isopropylbenzene	25	10	JD	
79-20-9	Methyl acetate	25	12	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	25	12	U	
108-87-2	Methylcyclohexane	25	100	D	
75-09-2	Methylene chloride	25	50	U	
104-51-8	n-Butylbenzene	25	35	D	NJ
103-65-1	n-Propylbenzene	25	20	D	
95-47-6	o-Xylene	25	12	U	
179601-23-1	p- & m- Xylenes	25	14	JD	
99-87-6	p-Isopropyltoluene	25	12	U	
135-98-8	sec-Butylbenzene	25	12	U	
100-42-5	Styrene	25	12	U	
75-65-0	tert-Butyl alcohol (TBA)	25	25	U	
98-06-6	tert-Butylbenzene	25	12	U	
127-18-4	Tetrachloroethylene	25	12	U	UJ
108-88-3	Toluene	25	12	U	
156-60-5	trans-1,2-Dichloroethylene	25	12	U	
10061-02-6	trans-1,3-Dichloropropylene	25	12	U	
110-57-6	trans-1,4-dichloro-2-butene	25	12	U	
79-01-6	Trichloroethylene	25	12	U	
75-69-4	Trichlorofluoromethane	25	12	U	UJ
75-01-4	Vinyl Chloride	25	12	U	
1330-20-7	Xylenes, Total	25	38	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.7	107	69 - 130	D
SURR: Toluene-d8	10.0	9.70	97.0	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	153657	5.791	181970	5.785	
ISTD: Chlorobenzene-d5	667047	8.817	767124	8.812	
ISTD: 1,2-Dichlorobenzene-d4	273185	11.806	346521	11.806	

* Values outside of QC limits

MKP 2/7/2024

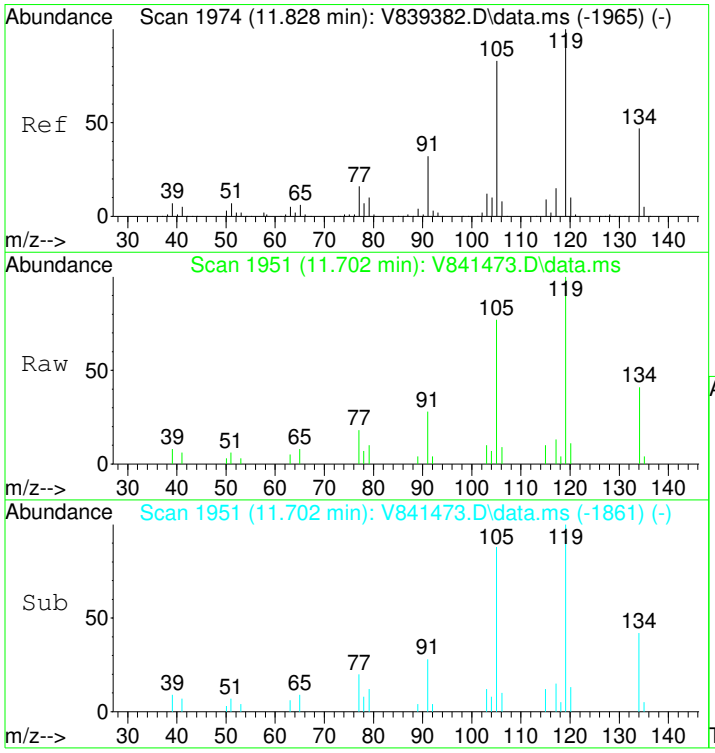
Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\112723A\
Data File : V841473.D
Acq On : 27 Nov 2023 1:57 pm
Operator : SMA
InstName : VOA No. 8
Sample : 23K1273-05
Misc : QBV8112723A 8260 COMP+TIC C 2ML/50ML
ALS Vial : 12 Sample Multiplier: 25

Quant Time: Nov 27 14:25:06 2023
Quant Method : C:\msdchem\1\methods\V8L110323.M
Quant Title : Volatile Organics EPA 8260C & 8260D & 624.1
QLast Update : Sat Nov 04 12:11:11 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.791	70	153657	10.00	ppb		0.00
45) CHLOROBENZENE-d5 (ISTD)	8.817	117	667047	10.00	ppb		0.00
74) 1,2-DICHLOROBENZENE-d4...	11.806	152	273185	10.00	ppb		0.00
System Monitoring Compounds							
40) d4-1,2-Dichloroethane ...	5.518	65	185601	10.72	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.20%				
57) Toluene-d8 (SURR)	7.304	98	918145	9.70	ppb		0.00
Spiked Amount 10.000	Range 84 - 117		Recovery = 97.00%				
76) p-Bromofluorobenzene (...	10.080	95	335702	10.45	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.50%				
Target Compounds							Qvalue
37) Cyclohexane	5.181	56	87486	3.36	ppb		89
47) Methyl Cyclohexane	6.253	83	135309	4.11	ppb		98
68) Ethyl Benzene	8.921	91	44410	0.49	ppb		97
70) p- & m-Xylenes	9.040	91	41058	0.57	ppb		97
75) Isopropylbenzene	9.862	105	34436	0.41	ppb		96
79) n-Propylbenzene	10.314	91	77567	0.81	ppb		95
82) p-Ethyltoluene	10.439	105	21975	0.27	ppb	#	43
84) 1,3,5-Trimethylbenzene	10.505	105	37080	0.57	ppb		97
87) 1,2,4-Trimethylbenzene	10.935	105	33782	0.54	ppb		96
92) 1,2,3-Trimethylbenzene	11.419	105	26896	0.44	ppb		98
93) p-Diethylbenzene	11.702	105	19091	0.57	ppb		88
94) n-Butylbenzene	11.713	134	15944	1.39	ppb	#	1
97) 1,2,4,5-Tetramethylben...	12.606	119	29377	0.61	ppb		95
102) Naphthalene	13.940	128	6413	0.24	ppb	#	85

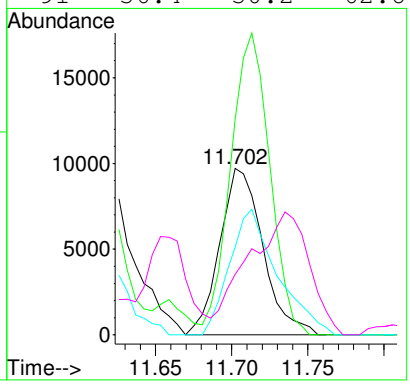
(#) = qualifier out of range (m) = manual integration (+) = signals summed

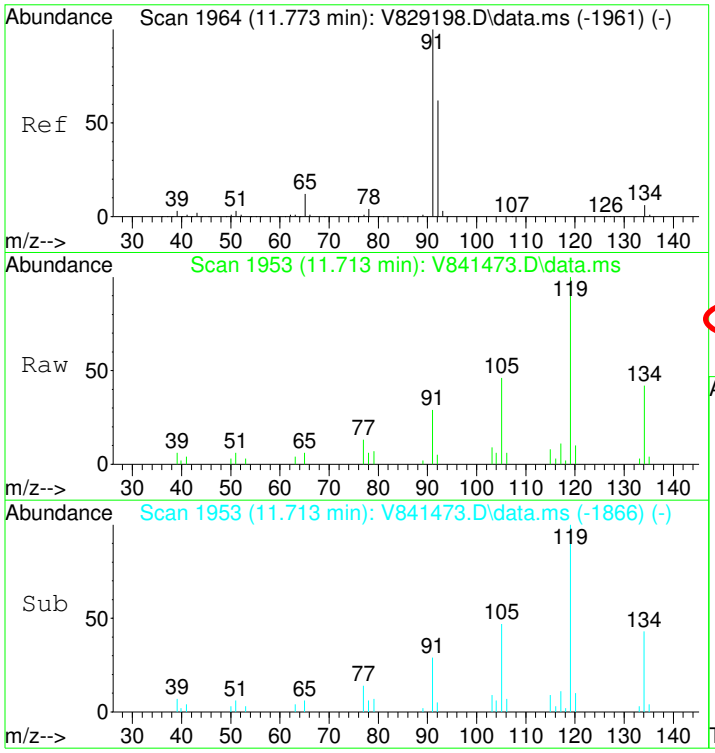


#93
p-Diethylbenzene
Concen: 0.57 ppb
RT: 11.702 min Scan# 1951
Delta R.T. -0.011 min
Lab File: V841473.D
Acq: 27 Nov 2023 1:57 pm

Tgt Ion:105 Resp: 19091

Ion	Ratio	Lower	Upper
105	100		
119	129.6	74.8	155.3
134	52.7	37.0	76.8
91	36.4	30.2	62.8

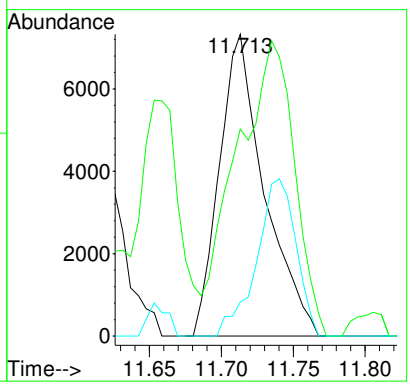




#94
n-Butylbenzene
Concen: 1.39 ppb
RT: 11.713 min Scan# 1953
Delta R.T. -0.027 min
Lab File: V841473.D
Acq: 27 Nov 2023 1:57 pm

Tgt Ion:134 Resp: 15944

Ion	Ratio	Lower	Upper
134	100		
91	68.6	230.9	479.5#
92	11.2	126.9	263.5#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: V841474.D

Sampled: 11/17/23 11:05 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 14:25

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	50	25	U	
71-55-6	1,1,1-Trichloroethane	50	25	U	
79-34-5	1,1,2,2-Tetrachloroethane	50	25	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50	25	U	
79-00-5	1,1,2-Trichloroethane	50	25	U	
75-34-3	1,1-Dichloroethane	50	25	U	
75-35-4	1,1-Dichloroethylene	50	25	U	
87-61-6	1,2,3-Trichlorobenzene	50	25	U	
96-18-4	1,2,3-Trichloropropane	50	25	U	
120-82-1	1,2,4-Trichlorobenzene	50	25	U	
95-63-6	1,2,4-Trimethylbenzene	50	160	D	
96-12-8	1,2-Dibromo-3-chloropropane	50	25	U	
106-93-4	1,2-Dibromoethane	50	25	U	
95-50-1	1,2-Dichlorobenzene	50	25	U	
107-06-2	1,2-Dichloroethane	50	25	U	
78-87-5	1,2-Dichloropropane	50	25	U	
108-67-8	1,3,5-Trimethylbenzene	50	52	D	
541-73-1	1,3-Dichlorobenzene	50	25	U	
106-46-7	1,4-Dichlorobenzene	50	25	U	
123-91-1	1,4-Dioxane	50	~~2000~~	U	R
78-93-3	2-Butanone	50	25	U	UJ
591-78-6	2-Hexanone	50	25	U	UJ
108-10-1	4-Methyl-2-pentanone	50	25	U	UJ
67-64-1	Acetone	50	100	U	UJ
107-02-8	Acrolein	50	25	U	UJ
107-13-1	Acrylonitrile	50	25	U	
71-43-2	Benzene	50	25	U	
74-97-5	Bromochloromethane	50	25	U	
75-27-4	Bromodichloromethane	50	25	U	
75-25-2	Bromoform	50	25	U	UJ
74-83-9	Bromomethane	50	25	U	UJ
75-15-0	Carbon disulfide	50	25	U	
56-23-5	Carbon tetrachloride	50	25	U	
108-90-7	Chlorobenzene	50	25	U	
75-00-3	Chloroethane	50	25	U	UJ
67-66-3	Chloroform	50	25	U	
74-87-3	Chloromethane	50	25	U	
156-59-2	cis-1,2-Dichloroethylene	50	25	U	
10061-01-5	cis-1,3-Dichloropropylene	50	25	U	
110-82-7	Cyclohexane	50	88	D	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: V841474.D

Sampled: 11/17/23 11:05 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 14:25

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	50	25	U	
74-95-3	Dibromomethane	50	25	U	
75-71-8	Dichlorodifluoromethane	50	25	U	
100-41-4	Ethyl Benzene	50	100	D	
87-68-3	Hexachlorobutadiene	50	25	U	
98-82-8	Isopropylbenzene	50	10	JD	
79-20-9	Methyl acetate	50	25	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	50	25	U	
108-87-2	Methylcyclohexane	50	68	D	
75-09-2	Methylene chloride	50	100	U	
104-51-8	n-Butylbenzene	50	25	U	
103-65-1	n-Propylbenzene	50	26	D	
95-47-6	o-Xylene	50	34	D	
179601-23-1	p- & m- Xylenes	50	240	D	
99-87-6	p-Isopropyltoluene	50	25	U	
135-98-8	sec-Butylbenzene	50	25	U	
100-42-5	Styrene	50	25	U	
75-65-0	tert-Butyl alcohol (TBA)	50	50	U	UJ
98-06-6	tert-Butylbenzene	50	25	U	
127-18-4	Tetrachloroethylene	50	25	U	UJ
108-88-3	Toluene	50	25	U	
156-60-5	trans-1,2-Dichloroethylene	50	25	U	
10061-02-6	trans-1,3-Dichloropropylene	50	25	U	
110-57-6	trans-1,4-dichloro-2-butene	50	25	U	
79-01-6	Trichloroethylene	50	25	U	
75-69-4	Trichlorofluoromethane	50	25	U	
75-01-4	Vinyl Chloride	50	25	U	
1330-20-7	Xylenes, Total	50	270	D	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.7	107	69 - 130	D
SURR: Toluene-d8	10.0	9.66	96.6	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	140397	5.791	181970	5.785	
ISTD: Chlorobenzene-d5	624498	8.817	767124	8.812	
ISTD: 1,2-Dichlorobenzene-d4	262958	11.806	346521	11.806	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K1273-07 File ID: V841469.D

Sampled: 11/17/23 15:00 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 12:04

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	UJ
67-64-1	Acetone	1	1.8	J	J
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	UJ
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K1273-07 File ID: V841469.D

Sampled: 11/17/23 15:00 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 12:04

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	1.0	J	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	UJ
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.7	107	69 - 130	
SURR: Toluene-d8	10.0	9.66	96.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.9	109	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	153303	5.785	181970	5.785	
ISTD: Chlorobenzene-d5	662413	8.817	767124	8.812	
ISTD: 1,2-Dichlorobenzene-d4	263601	11.806	346521	11.806	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K1273-08 File ID: V841475.D

Sampled: 11/17/23 15:00 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 14:54

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	UJ
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.58		
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	UJ
67-66-3	Chloroform	1	7.9		
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Water Laboratory ID: 23K1273-08 File ID: V841475.D

Sampled: 11/17/23 15:00 Prepared: 11/27/23 09:00 Analyzed: 11/27/23 14:54

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31642 Sequence: S3K2808 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	UJ
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.0	110	69 - 130	
SURR: Toluene-d8	10.0	9.63	96.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	130729	5.791	181970	5.785	
ISTD: Chlorobenzene-d5	591773	8.817	767124	8.812	
ISTD: 1,2-Dichlorobenzene-d4	236850	11.806	346521	11.806	

* Values outside of QC limits

MKP 2/7/2024

York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
CLASS: SVOA
METHOD: EPA 8270D SIM

DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW2	23K1273-02RE1
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/28/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-01	File ID:	SV649761.D
Sampled:	11/17/23 11:50	Prepared:	11/28/23 08:04	Analyzed:	11/29/23 00:41
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BK31716	Sequence:	S3K2914	Calibration:	SK30007
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	1	0.0500	U	UJ
208-96-8	Acenaphthylene	1	0.0500	U	
120-12-7	Anthracene	1	0.0500	U	
56-55-3	Benzo(a)anthracene	1	0.0500	U	
50-32-8	Benzo(a)pyrene	1	0.0500	U	
205-99-2	Benzo(b)fluoranthene	1	0.0500	U	
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U	
207-08-9	Benzo(k)fluoranthene	1	0.0500	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.500	U	
218-01-9	Chrysene	1	0.0500	U	
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U	
206-44-0	Fluoranthene	1	0.0500	U	
86-73-7	Fluorene	1	0.0500	U	
118-74-1	Hexachlorobenzene	1	0.0200	U	
87-68-3	Hexachlorobutadiene	1	0.500	U	
67-72-1	Hexachloroethane	1	0.500	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U	
91-20-3	Naphthalene	1	0.120		J
98-95-3	Nitrobenzene	1	0.250	U	UJ
62-75-9	N-Nitrosodimethylamine	1	~~0.500~~	U	R
85-01-8	Phenanthrene	1	0.0500	U	UJ
129-00-0	Pyrene	1	0.0500		J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1593556	7.75	2466676	7.74	
ISTD: Naphthalene-d8	4050804	9.32	5923689	9.32	
ISTD: Acenaphthene-d10	2932157	11.72	4185837	11.73	
ISTD: Phenanthrene-d10	4921100	13.86	6987669	13.86	
ISTD: Chrysene-d12	4089117	17.69	5468559	17.69	
ISTD: Perylene-d12	4373847	19.61	5781419	19.61	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-02 | File ID: SV649762.D

Sampled: 11/17/23 13:55 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 01:12

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2914 | Calibration: SK30007 | Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	1	0.210		J
208-96-8	Acenaphthylene	1	0.0500	U	UJ
120-12-7	Anthracene	1	0.100		J
56-55-3	Benzo(a)anthracene	1	0.0500	U	UJ
50-32-8	Benzo(a)pyrene	1	0.0500	U	
205-99-2	Benzo(b)fluoranthene	1	0.0500	U	
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U	
207-08-9	Benzo(k)fluoranthene	1	0.0500	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.500	U	
218-01-9	Chrysene	1	0.0500	U	
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U	
206-44-0	Fluoranthene	1	0.110		J
86-73-7	Fluorene	1	0.140		J
118-74-1	Hexachlorobenzene	1	0.0200	U	UJ
87-68-3	Hexachlorobutadiene	1	0.500	U	
67-72-1	Hexachloroethane	1	0.500	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U	
98-95-3	Nitrobenzene	1	0.250	U	
62-75-9	N-Nitrosodimethylamine	1	~~0.500~~	U	R
85-01-8	Phenanthrene	1	0.280		J
129-00-0	Pyrene	1	0.0800		J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1641166	7.77	2466676	7.74	
ISTD: Naphthalene-d8	3988147	9.33	5923689	9.32	
ISTD: Acenaphthene-d10	2675976	11.73	4185837	11.73	
ISTD: Phenanthrene-d10	4637165	13.86	6987669	13.86	
ISTD: Chrysene-d12	4260096	17.69	5468559	17.69	
ISTD: Perylene-d12	4698065	19.61	5781419	19.61	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-02RE1	File ID:	SV649779.D
Sampled:	11/17/23 13:55	Prepared:	11/28/23 08:04	Analyzed:	11/29/23 14:48
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BK31716	Sequence:	S3K3009	Calibration:	SK30007
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
91-20-3	Naphthalene	10	49.6	D	J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1700488	7.75	1660820	7.74	
ISTD: Naphthalene-d8	4183245	9.32	4035926	9.31	
ISTD: Acenaphthene-d10	3015076	11.72	2829191	11.72	
ISTD: Phenanthrene-d10	4942986	13.86	4465343	13.87	
ISTD: Chrysene-d12	4452325	17.69	3870640	17.69	
ISTD: Perylene-d12	4540781	19.61	4289709	19.62	

* Values outside of QC limits

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EPA 8270D SIM

23MW3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-03	File ID:	SV649763.D
Sampled:	11/17/23 14:30	Prepared:	11/28/23 08:04	Analyzed:	11/29/23 01:43
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BK31716	Sequence:	S3K2914	Calibration:	SK30007
Instrument:	BNA#6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	1	0.0500	U	UJ
208-96-8	Acenaphthylene	1	0.0500	U	
120-12-7	Anthracene	1	0.0500	U	
56-55-3	Benzo(a)anthracene	1	0.0500	U	
50-32-8	Benzo(a)pyrene	1	0.0500	U	
205-99-2	Benzo(b)fluoranthene	1	0.0500	U	
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U	
207-08-9	Benzo(k)fluoranthene	1	0.0500	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.500	U	
218-01-9	Chrysene	1	0.0500	U	
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U	
206-44-0	Fluoranthene	1	0.0600		J
86-73-7	Fluorene	1	0.0500	U	UJ
118-74-1	Hexachlorobenzene	1	0.0200	U	
87-68-3	Hexachlorobutadiene	1	0.500	U	
67-72-1	Hexachloroethane	1	0.500	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U	
91-20-3	Naphthalene	1	0.200		J
98-95-3	Nitrobenzene	1	0.250	U	UJ
62-75-9	N-Nitrosodimethylamine	1	~~0.500~~	U	R
85-01-8	Phenanthrene	1	0.100		J
129-00-0	Pyrene	1	0.0500	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1671022	7.75	2466676	7.74	
ISTD: Naphthalene-d8	4165365	9.32	5923689	9.32	
ISTD: Acenaphthene-d10	3005013	11.72	4185837	11.73	
ISTD: Phenanthrene-d10	5034393	13.86	6987669	13.86	
ISTD: Chrysene-d12	4287944	17.69	5468559	17.69	
ISTD: Perylene-d12	4574598	19.61	5781419	19.61	

* Values outside of QC limits

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EPA 8270D SIM

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-04 | File ID: SV649764.D

Sampled: 11/17/23 08:20 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 02:13

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2914 | Calibration: SK30007 | Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	1	0.0500	U	UJ
208-96-8	Acenaphthylene	1	0.0500	U	
120-12-7	Anthracene	1	0.0500	U	
56-55-3	Benzo(a)anthracene	1	0.0500	U	
50-32-8	Benzo(a)pyrene	1	0.0500	U	
205-99-2	Benzo(b)fluoranthene	1	0.0500	U	
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U	
207-08-9	Benzo(k)fluoranthene	1	0.0500	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.500	U	
218-01-9	Chrysene	1	0.0500	U	
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U	
206-44-0	Fluoranthene	1	0.0500	U	
86-73-7	Fluorene	1	0.310		J
118-74-1	Hexachlorobenzene	1	0.0200	U	UJ
87-68-3	Hexachlorobutadiene	1	0.500	U	
67-72-1	Hexachloroethane	1	0.500	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U	
91-20-3	Naphthalene	1	0.200		J
98-95-3	Nitrobenzene	1	0.250	U	UJ
62-75-9	N-Nitrosodimethylamine	1	0.500	U	R
85-01-8	Phenanthrene	1	0.0500	U	UJ
129-00-0	Pyrene	1	0.110		J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1692193	7.75	2466676	7.74	
ISTD: Naphthalene-d8	4384183	9.32	5923689	9.32	
ISTD: Acenaphthene-d10	3049305	11.72	4185837	11.73	
ISTD: Phenanthrene-d10	5175406	13.86	6987669	13.86	
ISTD: Chrysene-d12	4459459	17.69	5468559	17.69	
ISTD: Perylene-d12	4697815	19.61	5781419	19.61	

* Values outside of QC limits

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EPA 8270D SIM

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-05 | File ID: SV649765.D

Sampled: 11/17/23 09:45 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 02:44

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2914 | Calibration: SK30007 | Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	1	0.100		J
208-96-8	Acenaphthylene	1	0.0500	U	UJ
120-12-7	Anthracene	1	0.0500	U	
56-55-3	Benzo(a)anthracene	1	0.0500	U	
50-32-8	Benzo(a)pyrene	1	0.0500	U	
205-99-2	Benzo(b)fluoranthene	1	0.0500	U	
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U	
207-08-9	Benzo(k)fluoranthene	1	0.0500	U	
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.500	U	
218-01-9	Chrysene	1	0.0500	U	
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U	
206-44-0	Fluoranthene	1	0.0500		J
86-73-7	Fluorene	1	0.0500	U	UJ
118-74-1	Hexachlorobenzene	1	0.0200	U	
87-68-3	Hexachlorobutadiene	1	0.500	U	
67-72-1	Hexachloroethane	1	0.500	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U	
91-20-3	Naphthalene	1	0.690		J
98-95-3	Nitrobenzene	1	0.250	U	UJ
62-75-9	N-Nitrosodimethylamine	1	~~0.500~~	U	R
85-01-8	Phenanthrene	1	0.0500	U	UJ
129-00-0	Pyrene	1	0.0500	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1690547	7.75	2466676	7.74	
ISTD: Naphthalene-d8	4170973	9.32	5923689	9.32	
ISTD: Acenaphthene-d10	3019428	11.72	4185837	11.73	
ISTD: Phenanthrene-d10	4968460	13.86	6987669	13.86	
ISTD: Chrysene-d12	4291755	17.69	5468559	17.69	
ISTD: Perylene-d12	4697043	19.61	5781419	19.61	

* Values outside of QC limits

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EPA 8270D SIM

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-06 | File ID: SV649766.D

Sampled: 11/17/23 11:05 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 03:15

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2914 | Calibration: SK30007 | Instrument: BNA#6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	1	0.370		J
208-96-8	Acenaphthylene	1	0.0500	U	UJ
120-12-7	Anthracene	1	0.300		J
56-55-3	Benzo(a)anthracene	1	0.0800		J
50-32-8	Benzo(a)pyrene	1	0.0500	U	UJ
205-99-2	Benzo(b)fluoranthene	1	0.0500	U	UJ
191-24-2	Benzo(g,h,i)perylene	1	0.0500	U	UJ
207-08-9	Benzo(k)fluoranthene	1	0.0500	U	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	1	0.610		J
218-01-9	Chrysene	1	0.0900		J
53-70-3	Dibenzo(a,h)anthracene	1	0.0500	U	UJ
206-44-0	Fluoranthene	1	0.440		J
86-73-7	Fluorene	1	0.0500	U	UJ
118-74-1	Hexachlorobenzene	1	0.0200	U	
87-68-3	Hexachlorobutadiene	1	0.500	U	
67-72-1	Hexachloroethane	1	0.500	U	
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.0500	U	
91-20-3	Naphthalene	1	0.480		J
98-95-3	Nitrobenzene	1	0.250	U	UJ
62-75-9	N-Nitrosodimethylamine	1	0.500	U	R
85-01-8	Phenanthrene	1	0.290		J
129-00-0	Pyrene	1	0.310		J

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1734937	7.75	2466676	7.74	
ISTD: Naphthalene-d8	4203805	9.32	5923689	9.32	
ISTD: Acenaphthene-d10	2971534	11.73	4185837	11.73	
ISTD: Phenanthrene-d10	5096529	13.86	6987669	13.86	
ISTD: Chrysene-d12	4776662	17.69	5468559	17.69	
ISTD: Perylene-d12	5394634	19.61	5781419	19.61	

* Values outside of QC limits

MKP 2/7/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: SVOA

METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW2	23K1273-02RE1
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/28/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: SV3018791.D

Sampled: 11/17/23 11:50 Prepared: 11/28/23 08:04 Analyzed: 11/29/23 10:53

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3K2941 Calibration: SH30037 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
92-52-4	1,1-Biphenyl	1	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U
95-50-1	1,2-Dichlorobenzene	1	5.00	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U
541-73-1	1,3-Dichlorobenzene	1	5.00	U
106-46-7	1,4-Dichlorobenzene	1	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U
95-95-4	2,4,5-Trichlorophenol	1	5.00	U
88-06-2	2,4,6-Trichlorophenol	1	5.00	U
120-83-2	2,4-Dichlorophenol	1	5.00	U
105-67-9	2,4-Dimethylphenol	1	5.00	U
51-28-5	2,4-Dinitrophenol	1	~~3.48~~	J
121-14-2	2,4-Dinitrotoluene	1	5.00	U
606-20-2	2,6-Dinitrotoluene	1	5.00	U
91-58-7	2-Chloronaphthalene	1	5.00	U
95-57-8	2-Chlorophenol	1	5.00	U
91-57-6	2-Methylnaphthalene	1	5.00	U
95-48-7	2-Methylphenol	1	5.00	U
88-74-4	2-Nitroaniline	1	5.00	U
88-75-5	2-Nitrophenol	1	5.00	U
65794-96-9	3- & 4-Methylphenols	1	5.00	U
91-94-1	3,3-Dichlorobenzidine	1	5.00	U
99-09-2	3-Nitroaniline	1	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U
59-50-7	4-Chloro-3-methylphenol	1	5.00	U
106-47-8	4-Chloroaniline	1	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U
100-01-6	4-Nitroaniline	1	5.00	U
100-02-7	4-Nitrophenol	1	5.00	U
98-86-2	Acetophenone	1	5.00	U
62-53-3	Aniline	1	5.00	U
100-52-7	Benzaldehyde	1	5.00	U
92-87-5	Benzidine	1	5.00	U
65-85-0	Benzoic acid	1	5.00	U
100-51-6	Benzyl alcohol	1	5.00	U
85-68-7	Benzyl butyl phthalate	1	5.00	U
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-01	File ID:	SV3018791.D
Sampled:	11/17/23 11:50	Prepared:	11/28/23 08:04	Analyzed:	11/29/23 10:53
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BK31716	Sequence:	S3K2941	Calibration:	SH30037
Instrument:	BNA #3				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
6025-45-2	Resorcinol	1	5.00	U

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SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	15.2	30.4	19.7 - 63.1	
SURR: Phenol-d6	50.0	9.54	19.1	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	19.3	77.4	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	16.7	67.0	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	65.6	131	39.3 - 151	
SURR: Terphenyl-d14	25.0	18.6	74.6	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1889914	5.369	1549128	5.369	
ISTD: Naphthalene-d8	7413278	6.263	6796579	6.264	
ISTD: Acenaphthene-d10	5026871	7.788	4348499	7.789	
ISTD: Phenanthrene-d10	10736050	9.836	9638898	9.837	
ISTD: Chrysene-d12	13074400	15.294	12759650	15.297	
ISTD: Perylene-d12	18469660	18.389	17093430	18.387	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-02 | File ID: SV3018792.D

Sampled: 11/17/23 13:55 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 11:27

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2941 | Calibration: SH30037 | Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.00	U	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U	
95-50-1	1,2-Dichlorobenzene	1	5.00	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U	
541-73-1	1,3-Dichlorobenzene	1	5.00	U	
106-46-7	1,4-Dichlorobenzene	1	5.00	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U	
95-95-4	2,4,5-Trichlorophenol	1	5.00	U	
88-06-2	2,4,6-Trichlorophenol	1	5.00	U	
120-83-2	2,4-Dichlorophenol	1	5.00	U	
105-67-9	2,4-Dimethylphenol	1	5.00	U	
51-28-5	2,4-Dinitrophenol	1	~~5.00~~	U	R
121-14-2	2,4-Dinitrotoluene	1	5.00	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.00	U	UJ
91-58-7	2-Chloronaphthalene	1	5.00	U	UJ
95-57-8	2-Chlorophenol	1	5.00	U	UJ
91-57-6	2-Methylnaphthalene	1	16.8		J
95-48-7	2-Methylphenol	1	5.00	U	UJ
88-74-4	2-Nitroaniline	1	5.00	U	
88-75-5	2-Nitrophenol	1	5.00	U	
65794-96-9	3- & 4-Methylphenols	1	5.00	U	
91-94-1	3,3-Dichlorobenzidine	1	5.00	U	
99-09-2	3-Nitroaniline	1	5.00	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U	
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U	
59-50-7	4-Chloro-3-methylphenol	1	5.00	U	
106-47-8	4-Chloroaniline	1	5.00	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U	
100-01-6	4-Nitroaniline	1	5.00	U	
100-02-7	4-Nitrophenol	1	5.00	U	
98-86-2	Acetophenone	1	5.00	U	
62-53-3	Aniline	1	5.00	U	
100-52-7	Benzaldehyde	1	5.00	U	
92-87-5	Benzidine	1	5.00	U	
65-85-0	Benzoic acid	1	5.00	U	
100-51-6	Benzyl alcohol	1	5.00	U	
85-68-7	Benzyl butyl phthalate	1	5.00	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-02 | File ID: SV3018792.D

Sampled: 11/17/23 13:55 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 11:27

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2941 | Calibration: SH30037 | Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
6025-45-2	Resorcinol	1	5.00	U

UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	15.4	30.7	19.7 - 63.1	
SURR: Phenol-d6	50.0	8.86	17.7	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	19.5	78.0	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	15.7	62.7	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	64.8	130	39.3 - 151	
SURR: Terphenyl-d14	25.0	18.1	72.6	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	2120132	5.372	1549128	5.369	
ISTD: Naphthalene-d8	8542125	6.265	6796579	6.264	
ISTD: Acenaphthene-d10	5682269	7.789	4348499	7.789	
ISTD: Phenanthrene-d10	11729640	9.838	9638898	9.837	
ISTD: Chrysene-d12	14078250	15.296	12759650	15.297	
ISTD: Perylene-d12	19936480	18.391	17093430	18.387	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-02RE1	File ID:	BNA1024655.D
Sampled:	11/17/23 13:55	Prepared:	11/28/23 08:04	Analyzed:	11/30/23 03:17
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BK31716	Sequence:	S3K3018	Calibration:	SK30028
Instrument:	BNA #1				

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	19.8	39.6	19.7 - 63.1	
SURR: Phenol-d6	50.0	11.3	22.6	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	18.3	73.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	15.6	62.4	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	45.9	91.8	39.3 - 151	
SURR: Terphenyl-d14	25.0	19.4	77.6	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	147604	5.217	116070	5.222	
ISTD: Naphthalene-d8	681061	6.286	539112	6.286	
ISTD: Acenaphthene-d10	470165	8.093	357134	8.093	
ISTD: Phenanthrene-d10	1176455	10.052	782691	10.052	
ISTD: Chrysene-d12	1109549	14.829	956996	14.835	
ISTD: Perylene-d12	1320676	17.833	1109397	17.834	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-03 | File ID: SV3018793.D

Sampled: 11/17/23 14:30 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 11:59

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2941 | Calibration: SH30037 | Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.00	U	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U	
95-50-1	1,2-Dichlorobenzene	1	5.00	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U	
541-73-1	1,3-Dichlorobenzene	1	5.00	U	
106-46-7	1,4-Dichlorobenzene	1	5.00	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U	
95-95-4	2,4,5-Trichlorophenol	1	5.00	U	
88-06-2	2,4,6-Trichlorophenol	1	5.00	U	
120-83-2	2,4-Dichlorophenol	1	5.00	U	
105-67-9	2,4-Dimethylphenol	1	5.00	U	
51-28-5	2,4-Dinitrophenol	1	~~5.00~~	U	R
121-14-2	2,4-Dinitrotoluene	1	5.00	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.00	U	
91-58-7	2-Chloronaphthalene	1	5.00	U	
95-57-8	2-Chlorophenol	1	5.00	U	
91-57-6	2-Methylnaphthalene	1	5.00	U	
95-48-7	2-Methylphenol	1	5.00	U	
88-74-4	2-Nitroaniline	1	5.00	U	
88-75-5	2-Nitrophenol	1	5.00	U	
65794-96-9	3- & 4-Methylphenols	1	5.00	U	
91-94-1	3,3-Dichlorobenzidine	1	5.00	U	
99-09-2	3-Nitroaniline	1	5.00	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U	
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U	
59-50-7	4-Chloro-3-methylphenol	1	5.00	U	
106-47-8	4-Chloroaniline	1	5.00	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U	
100-01-6	4-Nitroaniline	1	5.00	U	
100-02-7	4-Nitrophenol	1	5.00	U	
98-86-2	Acetophenone	1	5.00	U	
62-53-3	Aniline	1	5.00	U	
100-52-7	Benzaldehyde	1	5.00	U	
92-87-5	Benzidine	1	5.00	U	
65-85-0	Benzoic acid	1	5.00	U	
100-51-6	Benzyl alcohol	1	5.00	U	
85-68-7	Benzyl butyl phthalate	1	5.00	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-03 | File ID: SV3018793.D

Sampled: 11/17/23 14:30 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 11:59

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2941 | Calibration: SH30037 | Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
6025-45-2	Resorcinol	1	5.00	U

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SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	14.2	28.4	19.7 - 63.1	
SURR: Phenol-d6	50.0	8.71	17.4	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	19.3	77.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	16.5	66.2	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	64.9	130	39.3 - 151	
SURR: Terphenyl-d14	25.0	18.6	74.4	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	2077639	5.369	1549128	5.369	
ISTD: Naphthalene-d8	8153923	6.263	6796579	6.264	
ISTD: Acenaphthene-d10	5493435	7.788	4348499	7.789	
ISTD: Phenanthrene-d10	11577600	9.836	9638898	9.837	
ISTD: Chrysene-d12	13788530	15.295	12759650	15.297	
ISTD: Perylene-d12	19644650	18.389	17093430	18.387	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: SV3018794.D

Sampled: 11/17/23 08:20 Prepared: 11/28/23 08:04 Analyzed: 11/29/23 12:34

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3K2941 Calibration: SH30037 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.00	U	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U	
95-50-1	1,2-Dichlorobenzene	1	5.00	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U	
541-73-1	1,3-Dichlorobenzene	1	5.00	U	
106-46-7	1,4-Dichlorobenzene	1	5.00	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U	
95-95-4	2,4,5-Trichlorophenol	1	5.00	U	
88-06-2	2,4,6-Trichlorophenol	1	5.00	U	
120-83-2	2,4-Dichlorophenol	1	5.00	U	
105-67-9	2,4-Dimethylphenol	1	5.00	U	
51-28-5	2,4-Dinitrophenol	1	5.00	U	R
121-14-2	2,4-Dinitrotoluene	1	5.00	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.00	U	
91-58-7	2-Chloronaphthalene	1	5.00	U	
95-57-8	2-Chlorophenol	1	5.00	U	
91-57-6	2-Methylnaphthalene	1	5.00	U	
95-48-7	2-Methylphenol	1	5.00	U	
88-74-4	2-Nitroaniline	1	5.00	U	
88-75-5	2-Nitrophenol	1	5.00	U	
65794-96-9	3- & 4-Methylphenols	1	5.00	U	
91-94-1	3,3-Dichlorobenzidine	1	5.00	U	
99-09-2	3-Nitroaniline	1	5.00	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U	
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U	
59-50-7	4-Chloro-3-methylphenol	1	5.00	U	
106-47-8	4-Chloroaniline	1	5.00	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U	
100-01-6	4-Nitroaniline	1	5.00	U	
100-02-7	4-Nitrophenol	1	5.00	U	
98-86-2	Acetophenone	1	5.00	U	
62-53-3	Aniline	1	5.00	U	
100-52-7	Benzaldehyde	1	5.00	U	
92-87-5	Benzidine	1	5.00	U	
65-85-0	Benzoic acid	1	5.00	U	
100-51-6	Benzyl alcohol	1	5.00	U	
85-68-7	Benzyl butyl phthalate	1	5.00	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U	

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-04 | File ID: SV3018794.D

Sampled: 11/17/23 08:20 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 12:34

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2941 | Calibration: SH30037 | Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
6025-45-2	Resorcinol	1	5.00	U

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SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	16.9	33.7	19.7 - 63.1	
SURR: Phenol-d6	50.0	10.1	20.2	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	21.6	86.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	18.3	73.2	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	70.9	142	39.3 - 151	
SURR: Terphenyl-d14	25.0	19.9	79.5	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1999439	5.37	1549128	5.369	
ISTD: Naphthalene-d8	7876716	6.264	6796579	6.264	
ISTD: Acenaphthene-d10	5342006	7.79	4348499	7.789	
ISTD: Phenanthrene-d10	11186010	9.838	9638898	9.837	
ISTD: Chrysene-d12	13450930	15.297	12759650	15.297	
ISTD: Perylene-d12	19293350	18.392	17093430	18.387	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: SV3018795.D

Sampled: 11/17/23 09:45 Prepared: 11/28/23 08:04 Analyzed: 11/29/23 13:07

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3K2941 Calibration: SH30037 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
92-52-4	1,1-Biphenyl	1	5.00	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U
95-50-1	1,2-Dichlorobenzene	1	5.00	U
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U
541-73-1	1,3-Dichlorobenzene	1	5.00	U
106-46-7	1,4-Dichlorobenzene	1	5.00	U
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U
95-95-4	2,4,5-Trichlorophenol	1	5.00	U
88-06-2	2,4,6-Trichlorophenol	1	5.00	U
120-83-2	2,4-Dichlorophenol	1	5.00	U
105-67-9	2,4-Dimethylphenol	1	5.00	U
51-28-5	2,4-Dinitrophenol	1	5.00	U
121-14-2	2,4-Dinitrotoluene	1	5.00	U
606-20-2	2,6-Dinitrotoluene	1	5.00	U
91-58-7	2-Chloronaphthalene	1	5.00	U
95-57-8	2-Chlorophenol	1	5.00	U
91-57-6	2-Methylnaphthalene	1	5.00	U
95-48-7	2-Methylphenol	1	5.00	U
88-74-4	2-Nitroaniline	1	5.00	U
88-75-5	2-Nitrophenol	1	5.00	U
65794-96-9	3- & 4-Methylphenols	1	5.00	U
91-94-1	3,3-Dichlorobenzidine	1	5.00	U
99-09-2	3-Nitroaniline	1	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U
59-50-7	4-Chloro-3-methylphenol	1	5.00	U
106-47-8	4-Chloroaniline	1	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U
100-01-6	4-Nitroaniline	1	5.00	U
100-02-7	4-Nitrophenol	1	5.00	U
98-86-2	Acetophenone	1	5.00	U
62-53-3	Aniline	1	5.00	U
100-52-7	Benzaldehyde	1	5.00	U
92-87-5	Benzidine	1	5.00	U
65-85-0	Benzoic acid	1	5.00	U
100-51-6	Benzyl alcohol	1	5.00	U
85-68-7	Benzyl butyl phthalate	1	5.00	U
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U

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MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1273

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water | Laboratory ID: 23K1273-05 | File ID: SV3018795.D

Sampled: 11/17/23 09:45 | Prepared: 11/28/23 08:04 | Analyzed: 11/29/23 13:07

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3K2941 | Calibration: SH30037 | Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
6025-45-2	Resorcinol	1	5.00	U

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SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	14.6	29.3	19.7 - 63.1	
SURR: Phenol-d6	50.0	8.89	17.8	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	19.6	78.5	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	17.5	69.9	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	69.0	138	39.3 - 151	
SURR: Terphenyl-d14	25.0	19.4	77.4	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1977750	5.37	1549128	5.369	
ISTD: Naphthalene-d8	7672699	6.265	6796579	6.264	
ISTD: Acenaphthene-d10	5097387	7.79	4348499	7.789	
ISTD: Phenanthrene-d10	10631310	9.839	9638898	9.837	
ISTD: Chrysene-d12	12991440	15.296	12759650	15.297	
ISTD: Perylene-d12	18141410	18.391	17093430	18.387	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: SV3018796.D

Sampled: 11/17/23 11:05 Prepared: 11/28/23 08:04 Analyzed: 11/29/23 13:40

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3K2941 Calibration: SH30037 Instrument: BNA #3

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.00	U	UJ
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U	
95-50-1	1,2-Dichlorobenzene	1	5.00	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U	
541-73-1	1,3-Dichlorobenzene	1	5.00	U	
106-46-7	1,4-Dichlorobenzene	1	5.00	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U	
95-95-4	2,4,5-Trichlorophenol	1	5.00	U	
88-06-2	2,4,6-Trichlorophenol	1	5.00	U	
120-83-2	2,4-Dichlorophenol	1	5.00	U	
105-67-9	2,4-Dimethylphenol	1	5.00	U	
51-28-5	2,4-Dinitrophenol	1	~~5.00~~	U	R
121-14-2	2,4-Dinitrotoluene	1	5.00	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.00	U	
91-58-7	2-Chloronaphthalene	1	5.00	U	
95-57-8	2-Chlorophenol	1	5.00	U	
91-57-6	2-Methylnaphthalene	1	5.00	U	
95-48-7	2-Methylphenol	1	5.00	U	
88-74-4	2-Nitroaniline	1	5.00	U	
88-75-5	2-Nitrophenol	1	5.00	U	
65794-96-9	3- & 4-Methylphenols	1	5.00	U	
91-94-1	3,3-Dichlorobenzidine	1	5.00	U	
99-09-2	3-Nitroaniline	1	5.00	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U	
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U	
59-50-7	4-Chloro-3-methylphenol	1	5.00	U	
106-47-8	4-Chloroaniline	1	5.00	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U	
100-01-6	4-Nitroaniline	1	5.00	U	
100-02-7	4-Nitrophenol	1	5.00	U	
98-86-2	Acetophenone	1	5.00	U	
62-53-3	Aniline	1	5.00	U	
100-52-7	Benzaldehyde	1	5.00	U	
92-87-5	Benzidine	1	5.00	U	
65-85-0	Benzoic acid	1	5.00	U	
100-51-6	Benzyl alcohol	1	5.00	U	
85-68-7	Benzyl butyl phthalate	1	5.00	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-06	File ID:	SV3018796.D
Sampled:	11/17/23 11:05	Prepared:	11/28/23 08:04	Analyzed:	11/29/23 13:40
Solids:		Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Batch:	BK31716	Sequence:	S3K2941	Calibration:	SH30037
Instrument:	BNA #3				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U
105-60-2	Caprolactam	1	5.00	U
86-74-8	Carbazole	1	5.00	U
132-64-9	Dibenzofuran	1	5.00	U
84-66-2	Diethyl phthalate	1	5.00	U
131-11-3	Dimethyl phthalate	1	5.00	U
84-74-2	Di-n-butyl phthalate	1	5.00	U
117-84-0	Di-n-octyl phthalate	1	5.00	U
77-47-4	Hexachlorocyclopentadiene	1	10.0	U
78-59-1	Isophorone	1	5.00	U
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U
86-30-6	N-Nitrosodiphenylamine	1	5.00	U
108-95-2	Phenol	1	5.00	U
6025-45-2	Resorcinol	1	5.00	U

UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	14.8	29.7	19.7 - 63.1	
SURR: Phenol-d6	50.0	8.96	17.9	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	19.3	77.1	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	16.8	67.0	39.9 - 105	
SURR: 2,4,6-Tribromophenol	50.0	69.5	139	39.3 - 151	
SURR: Terphenyl-d14	25.0	19.5	78.1	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	2007450	5.371	1549128	5.369	
ISTD: Naphthalene-d8	7899555	6.265	6796579	6.264	
ISTD: Acenaphthene-d10	5328176	7.79	4348499	7.789	
ISTD: Phenanthrene-d10	11120510	9.839	9638898	9.837	
ISTD: Chrysene-d12	13354400	15.298	12759650	15.297	
ISTD: Perylene-d12	18406460	18.392	17093430	18.387	

* Values outside of QC limits

MKP 2/7/2024

York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
CLASS: PEST
METHOD: EPA 8081B

DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: P7019859.D

Sampled: 11/17/23 11:50 Prepared: 11/22/23 07:22 Analyzed: 11/22/23 16:40

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31447 Sequence: S3K2737 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	
8001-35-2	Toxaphene	1	0.100	U	UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0659	32.9	30 - 150	
Tetrachloro-m-xylene	0.200	0.138	68.8	30 - 150	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: P7019860.D

Sampled: 11/17/23 13:55 Prepared: 11/22/23 07:22 Analyzed: 11/22/23 16:58

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31447 Sequence: S3K2737 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	
8001-35-2	Toxaphene	1	0.100	U	UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0753	37.6	30 - 150	
Tetrachloro-m-xylene	0.200	0.109	54.5	30 - 150	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: P7019861.D

Sampled: 11/17/23 14:30 Prepared: 11/22/23 07:22 Analyzed: 11/22/23 17:16

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31447 Sequence: S3K2737 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	
8001-35-2	Toxaphene	1	0.100	U	UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0621	31.0	30 - 150	
Tetrachloro-m-xylene	0.200	0.104	52.0	30 - 150	

* Values outside of QC limits

MKP 2/7/2024

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ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: P7019862.D

Sampled: 11/17/23 08:20 Prepared: 11/22/23 07:22 Analyzed: 11/22/23 17:34

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31447 Sequence: S3K2737 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	
8001-35-2	Toxaphene	1	0.100	U	UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.121	60.7	30 - 150	
Tetrachloro-m-xylene	0.200	0.122	61.0	30 - 150	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: P600426576.D

Sampled: 11/17/23 09:45 Prepared: 11/21/23 08:04 Analyzed: 11/21/23 22:47

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31360 Sequence: S3K2167 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	
8001-35-2	Toxaphene	1	0.100	U	UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0640	32.0	30 - 150	
Tetrachloro-m-xylene	0.200	0.126	63.1	30 - 150	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: P600426577.D

Sampled: 11/17/23 11:05 Prepared: 11/21/23 08:04 Analyzed: 11/21/23 23:08

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31360 Sequence: S3K2167 Calibration: SJ30007 Instrument: GCECD6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	
8001-35-2	Toxaphene	1	0.100	U	UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0507	25.4	30 - 150	*
Tetrachloro-m-xylene	0.200	0.150	74.8	30 - 150	

* Values outside of QC limits

MKP 2/7/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: ARO

METHOD: EPA 8082A

DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-01	File ID:	P1133924.D
Sampled:	11/17/23 11:50	Prepared:	11/22/23 07:22	Analyzed:	11/22/23 20:41
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31447	Sequence:	S3K2253	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
12674-11-2	Aroclor 1016	1	0.0500	U	UJ
11104-28-2	Aroclor 1221	1	0.0500	U	
11141-16-5	Aroclor 1232	1	0.0500	U	
53469-21-9	Aroclor 1242	1	0.0500	U	
12672-29-6	Aroclor 1248	1	0.0500	U	
11097-69-1	Aroclor 1254	1	0.0500	U	
11096-82-5	Aroclor 1260	1	0.0500	U	UJ
1336-36-3	Total PCBs	1	0.0500	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.114	57.0	30 - 120	
Decachlorobiphenyl	0.200	0.0990	49.5	30 - 120	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-02	File ID:	P1133925.D
Sampled:	11/17/23 13:55	Prepared:	11/22/23 07:22	Analyzed:	11/22/23 20:55
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31447	Sequence:	S3K2253	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
12674-11-2	Aroclor 1016	1	0.0500	U	UJ
11104-28-2	Aroclor 1221	1	0.0500	U	
11141-16-5	Aroclor 1232	1	0.0500	U	
53469-21-9	Aroclor 1242	1	0.0500	U	
12672-29-6	Aroclor 1248	1	0.0500	U	
11097-69-1	Aroclor 1254	1	0.0500	U	
11096-82-5	Aroclor 1260	1	0.0500	U	UJ
1336-36-3	Total PCBs	1	0.0500	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.115	57.5	30 - 120	
Decachlorobiphenyl	0.200	0.0880	44.0	30 - 120	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-03	File ID:	P1133926.D
Sampled:	11/17/23 14:30	Prepared:	11/22/23 07:22	Analyzed:	11/22/23 21:09
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31447	Sequence:	S3K2253	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
12674-11-2	Aroclor 1016	1	0.0500	U	UJ
11104-28-2	Aroclor 1221	1	0.0500	U	
11141-16-5	Aroclor 1232	1	0.0500	U	
53469-21-9	Aroclor 1242	1	0.0500	U	
12672-29-6	Aroclor 1248	1	0.0500	U	
11097-69-1	Aroclor 1254	1	0.0500	U	
11096-82-5	Aroclor 1260	1	0.0500	U	UJ
1336-36-3	Total PCBs	1	0.0500	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.108	54.0	30 - 120	
Decachlorobiphenyl	0.200	0.0840	42.0	30 - 120	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: P1133927.D

Sampled: 11/17/23 08:20 Prepared: 11/22/23 07:22 Analyzed: 11/22/23 21:22

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31447 Sequence: S3K2253 Calibration: SJ30030 Instrument: ECD#1

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
12674-11-2	Aroclor 1016	1	0.0500	U	UJ
11104-28-2	Aroclor 1221	1	0.0500	U	
11141-16-5	Aroclor 1232	1	0.0500	U	
53469-21-9	Aroclor 1242	1	0.0500	U	
12672-29-6	Aroclor 1248	1	0.0500	U	
11097-69-1	Aroclor 1254	1	0.0500	U	
11096-82-5	Aroclor 1260	1	0.0500	U	UJ
1336-36-3	Total PCBs	1	0.0500	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.111	55.5	30 - 120	
Decachlorobiphenyl	0.200	0.146	73.0	30 - 120	

* Values outside of QC limits

MKP 2/7/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-05	File ID:	P20514208.d
Sampled:	11/17/23 09:45	Prepared:	11/21/23 08:04	Analyzed:	11/22/23 05:24
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31360	Sequence:	S3K2237	Calibration:	SK30006
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
12674-11-2	Aroclor 1016	1	0.0500	U	UJ
11104-28-2	Aroclor 1221	1	0.0500	U	
11141-16-5	Aroclor 1232	1	0.0500	U	
53469-21-9	Aroclor 1242	1	0.0500	U	
12672-29-6	Aroclor 1248	1	0.0500	U	
11097-69-1	Aroclor 1254	1	0.0500	U	
11096-82-5	Aroclor 1260	1	0.0500	U	UJ
1336-36-3	Total PCBs	1	0.0500	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.193	96.5	30 - 120	
Decachlorobiphenyl	0.200	0.0800	40.0	30 - 120	

* Values outside of QC limits

MKP 2/7/2024

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ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-06	File ID:	P20514209.d
Sampled:	11/17/23 11:05	Prepared:	11/21/23 08:04	Analyzed:	11/22/23 05:40
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31360	Sequence:	S3K2237	Calibration:	SK30006
Instrument:	GC_5890_I				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
12674-11-2	Aroclor 1016	1	0.0500	U	UJ
11104-28-2	Aroclor 1221	1	0.0500	U	
11141-16-5	Aroclor 1232	1	0.0500	U	
53469-21-9	Aroclor 1242	1	0.0500	U	
12672-29-6	Aroclor 1248	1	0.0500	U	
11097-69-1	Aroclor 1254	1	0.0500	U	
11096-82-5	Aroclor 1260	1	0.0500	U	UJ
1336-36-3	Total PCBs	1	0.0500	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.194	97.0	30 - 120	
Decachlorobiphenyl	0.200	0.0580	29.0	30 - 120	*

* Values outside of QC limits

MKP 2/7/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: SVOA

METHOD: EPA 8270D SIM

No data validation qualifiers were added

MKP 2/7/2024

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EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/28/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-01	File ID:	E800073655.D
Sampled:	11/17/23 11:50	Prepared:	11/20/23 13:19	Analyzed:	11/22/23 05:17
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31303	Sequence:	S3K2504	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	3.01	75.2	36.6 - 118	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-02	File ID:	E800073656.D
Sampled:	11/17/23 13:55	Prepared:	11/20/23 13:19	Analyzed:	11/22/23 05:35
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31303	Sequence:	S3K2504	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	3.84	96.1	36.6 - 118	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-03	File ID:	E800073657.D
Sampled:	11/17/23 14:30	Prepared:	11/20/23 13:19	Analyzed:	11/22/23 05:52
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31303	Sequence:	S3K2504	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	3.85	96.3	36.6 - 118	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-04	File ID:	E800073658.D
Sampled:	11/17/23 08:20	Prepared:	11/20/23 13:19	Analyzed:	11/22/23 06:10
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31303	Sequence:	S3K2504	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	3.57	89.3	36.6 - 118	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-05	File ID:	E800073659.D
Sampled:	11/17/23 09:45	Prepared:	11/20/23 13:19	Analyzed:	11/22/23 06:28
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31303	Sequence:	S3K2504	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	3.49	87.3	36.6 - 118	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1273
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Ground Water	Laboratory ID:	23K1273-06	File ID:	E800073660.D
Sampled:	11/17/23 11:05	Prepared:	11/20/23 13:19	Analyzed:	11/22/23 06:45
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31303	Sequence:	S3K2504	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	2.36	59.1	36.6 - 118	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: METALS

METHOD: EPA 6020B

DATA PACKAGE COVER PAGE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/28/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: QBIMX112823A-036

Sampled: 11/17/23 11:50 Prepared: 11/28/23 08:29 Analyzed: 11/28/23 15:39

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31728 Sequence: S3K2906 Calibration: 11/28/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	UJ
7440-38-2	Arsenic	14.1	1		EPA 6020B	
7440-38-2	Arsenic (dissolved)	8.09	1		EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	UJ
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	UJ
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	
7782-49-2	Selenium	7.48	1	B	EPA 6020B	J
7782-49-2	Selenium (dissolved)	3.58	1	B	EPA 6020B	J
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: QBIMX112823A-037

Sampled: 11/17/23 13:55 Prepared: 11/28/23 08:29 Analyzed: 11/28/23 15:42

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31728 Sequence: S3K2906 Calibration: 11/28/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	UJ
7440-38-2	Arsenic	5.40	1		EPA 6020B	
7440-38-2	Arsenic (dissolved)	4.89	1		EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	UJ
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	UJ
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	
7782-49-2	Selenium	4.21	1	B	EPA 6020B	J
7782-49-2	Selenium (dissolved)	2.71	1	B	EPA 6020B	J
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: QBIMX112823A-040

Sampled: 11/17/23 14:30 Prepared: 11/28/23 08:29 Analyzed: 11/28/23 15:53

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31728 Sequence: S3K2906 Calibration: 11/28/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	UJ
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	UJ
7440-38-2	Arsenic	22.4	1		EPA 6020B	
7440-38-2	Arsenic (dissolved)	18.8	1		EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	UJ
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	UJ
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	
7782-49-2	Selenium	4.98	1	B	EPA 6020B	J
7782-49-2	Selenium (dissolved)	1.69	1	B	EPA 6020B	J
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: QBIMX112823A-041

Sampled: 11/17/23 08:20 Prepared: 11/28/23 08:29 Analyzed: 11/28/23 15:56

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31728 Sequence: S3K2906 Calibration: 11/28/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	UJ
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	UJ
7440-38-2	Arsenic	1.20	1		EPA 6020B	
7440-38-2	Arsenic (dissolved)	1.11	1	U	EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	UJ
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	UJ
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	
7782-49-2	Selenium	1.11	1	U	EPA 6020B	
7782-49-2	Selenium (dissolved)	1.52	1	B	EPA 6020B	J
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: QBIMX112823A-042

Sampled: 11/17/23 09:45 Prepared: 11/28/23 08:29 Analyzed: 11/28/23 16:00

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31728 Sequence: S3K2906 Calibration: 11/28/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	UJ
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	UJ
7440-38-2	Arsenic	40.8	1		EPA 6020B	
7440-38-2	Arsenic (dissolved)	4.65	1		EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	UJ
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	UJ
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	
7782-49-2	Selenium	5.39	1	B	EPA 6020B	J
7782-49-2	Selenium (dissolved)	6.53	1	B	EPA 6020B	J
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: QBIMX112823A-043

Sampled: 11/17/23 11:05 Prepared: 11/28/23 08:29 Analyzed: 11/28/23 16:03

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31728 Sequence: S3K2906 Calibration: 11/28/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	UJ
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	UJ
7440-38-2	Arsenic	2.88	1		EPA 6020B	
7440-38-2	Arsenic (dissolved)	1.67	1		EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	UJ
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	UJ
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	UJ
7782-49-2	Selenium	8.29	1	B	EPA 6020B	J
7782-49-2	Selenium (dissolved)	8.22	1	B	EPA 6020B	J
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

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York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: METALS

METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/28/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: QBICP2-113023ARE_1-096

Sampled: 11/17/23 11:50 Prepared: 11/28/23 08:23 Analyzed: 11/30/23 15:22

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31725 Sequence: S3K3042 Calibration: 11/30/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.548	1		EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0695	1		EPA 6010D
7440-39-3	Barium	0.219	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.0946	1		EPA 6010D
7440-70-2	Calcium	222	1	B	EPA 6010D
7440-70-2	Calcium (dissolved)	212	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00570	1		EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	7.36	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.112	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	37.6	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	36.8	1		EPA 6010D
7439-96-5	Manganese	0.613	1		EPA 6010D
7439-96-5	Manganese (dissolved)	0.537	1		EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	25.7	1		EPA 6010D
7440-09-7	Potassium (dissolved)	24.1	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: QBICP2-112823ARE_1-470

Sampled: 11/17/23 11:50 Prepared: 11/28/23 08:31 Analyzed: 11/28/23 18:04

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31730 Sequence: S3K2910 Calibration: 11/28/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	116	1	B	EPA 6010D	J+
7440-23-5	Sodium (dissolved)	152	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: QBICP2-113023ARE_1-097

Sampled: 11/17/23 13:55 Prepared: 11/28/23 08:23 Analyzed: 11/30/23 15:25

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31725 Sequence: S3K3042 Calibration: 11/30/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.581	1		EPA 6010D
7429-90-5	Aluminum	0.581	1		EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0635	1		EPA 6010D
7440-39-3	Barium	0.170	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.0891	1		EPA 6010D
7440-70-2	Calcium	155	1	B	EPA 6010D
7440-70-2	Calcium (dissolved)	149	1		EPA 6010D
7440-47-3	Chromium	0.00606	1		EPA 6010D
7440-47-3	Chromium (dissolved)	0.00780	1		EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	4.63	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.0293	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00588	1		EPA 6010D
7439-95-4	Magnesium	19.3	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	18.5	1		EPA 6010D
7439-96-5	Manganese	1.27	1		EPA 6010D
7439-96-5	Manganese (dissolved)	1.21	1		EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	20.0	1		EPA 6010D
7440-09-7	Potassium (dissolved)	18.6	1		EPA 6010D

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EPA 6010D

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: QBICP2-113023ARE_1-097

Sampled: 11/17/23 13:55 Prepared: 11/28/23 08:23 Analyzed: 11/30/23 15:25

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31725 Sequence: S3K3042 Calibration: 11/30/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver	0.00556	1	U	EPA 6010D	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	37.0	1	B	EPA 6010D	J+
7440-23-5	Sodium (dissolved)	47.5	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

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EPA 6010D

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: QBICP2-113023ARE_1-098

Sampled: 11/17/23 14:30 Prepared: 11/28/23 08:23 Analyzed: 11/30/23 15:27

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31725 Sequence: S3K3042 Calibration: 11/30/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.584	1		EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0608	1		EPA 6010D
7440-39-3	Barium	0.198	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.0766	1		EPA 6010D
7440-70-2	Calcium	200	1	B	EPA 6010D
7440-70-2	Calcium (dissolved)	177	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00602	1		EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	5.01	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.0777	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	34.7	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	30.9	1		EPA 6010D
7439-96-5	Manganese	0.648	1		EPA 6010D
7439-96-5	Manganese (dissolved)	0.536	1		EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	25.4	1		EPA 6010D
7440-09-7	Potassium (dissolved)	22.5	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D

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EPA 6010D

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: QBICP2-112823ARE_1-472

Sampled: 11/17/23 14:30 Prepared: 11/28/23 08:31 Analyzed: 11/28/23 18:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31730 Sequence: S3K2910 Calibration: 11/28/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	94.4	1	B	EPA 6010D	J+
7440-23-5	Sodium (dissolved)	110	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

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EPA 6010D

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: QBICP2-113023ARE_1-099

Sampled: 11/17/23 08:20 Prepared: 11/28/23 08:23 Analyzed: 11/30/23 15:29

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31725 Sequence: S3K3042 Calibration: 11/30/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.145	1		EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0556	1	U	EPA 6010D
7440-39-3	Barium	0.150	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.0771	1		EPA 6010D
7440-70-2	Calcium	132	1	B	EPA 6010D
7440-70-2	Calcium (dissolved)	123	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00584	1		EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	8.02	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.0164	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	15.4	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	14.9	1		EPA 6010D
7439-96-5	Manganese	0.662	1		EPA 6010D
7439-96-5	Manganese (dissolved)	0.600	1		EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	17.2	1		EPA 6010D
7440-09-7	Potassium (dissolved)	15.8	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: QBICP2-112823ARE_1-475

Sampled: 11/17/23 08:20 Prepared: 11/28/23 08:31 Analyzed: 11/28/23 18:19

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31730 Sequence: S3K2910 Calibration: 11/28/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	29.1	1	B	EPA 6010D	J+
7440-23-5	Sodium (dissolved)	36.7	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

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EPA 6010D

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: QBICP2-113023ARE_1-100

Sampled: 11/17/23 09:45 Prepared: 11/28/23 08:23 Analyzed: 11/30/23 15:32

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31725 Sequence: S3K3042 Calibration: 11/30/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.151	1		EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0735	1		EPA 6010D
7440-39-3	Barium	0.308	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.142	1		EPA 6010D
7440-70-2	Calcium	234	1	B	EPA 6010D
7440-70-2	Calcium (dissolved)	217	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00578	1		EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	21.2	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.0140	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	50.3	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	47.8	1		EPA 6010D
7439-96-5	Manganese	1.24	1		EPA 6010D
7439-96-5	Manganese (dissolved)	1.12	1		EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	33.8	1		EPA 6010D
7440-09-7	Potassium (dissolved)	31.1	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: QBICP2-112823ARE_1-476

Sampled: 11/17/23 09:45 Prepared: 11/28/23 08:31 Analyzed: 11/28/23 18:22

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31730 Sequence: S3K2910 Calibration: 11/28/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	190	1	B	EPA 6010D	J+
7440-23-5	Sodium (dissolved)	242	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: QBICP2-113023ARE_1-101

Sampled: 11/17/23 11:05 Prepared: 11/28/23 08:23 Analyzed: 11/30/23 15:34

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31725 Sequence: S3K3042 Calibration: 11/30/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	0.256	1		EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0770	1		EPA 6010D
7440-39-3	Barium	0.326	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.165	1		EPA 6010D
7440-70-2	Calcium	246	1	B	EPA 6010D
7440-70-2	Calcium (dissolved)	230	1		EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00584	1		EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0222	1	U	EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	10.7	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.0238	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	48.0	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	46.0	1		EPA 6010D
7439-96-5	Manganese	0.855	1		EPA 6010D
7439-96-5	Manganese (dissolved)	0.760	1		EPA 6010D
7440-02-0	Nickel	0.0111	1	U	EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	32.9	1		EPA 6010D
7440-09-7	Potassium (dissolved)	30.5	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: QBICP2-112823ARE_1-477

Sampled: 11/17/23 11:05 Prepared: 11/28/23 08:31 Analyzed: 11/28/23 18:25

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31730 Sequence: S3K2910 Calibration: 11/28/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	227	1	B	EPA 6010D	J+
7440-23-5	Sodium (dissolved)	294	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

MKP 2/7/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: HG

METHOD: EPA 7470

No data validation qualifiers were added

MKP 2/7/2024

DATA PACKAGE COVER PAGE

EPA 7470

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature:
Name: Cassie L.Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: QBHg11292023A-032

Sampled: 11/17/23 11:50 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: QBHg11292023A-033

Sampled: 11/17/23 13:55 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: QBHg11292023A-034

Sampled: 11/17/23 14:30 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: QBHg11292023A-035

Sampled: 11/17/23 08:20 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: QBHg11292023A-036

Sampled: 11/17/23 09:45 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: QBHg11292023A-039

Sampled: 11/17/23 11:05 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: HG

METHOD: EPA 7470

No data validation qualifiers were added

MKP 2/7/2024

DATA PACKAGE COVER PAGE

EPA 7470

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

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Signature:
Name: Cassie L.Mosher

Date: 12/29/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID: QBHg11292023A-009

Sampled: 11/17/23 11:50 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0010	1		EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID: QBHg11292023A-010

Sampled: 11/17/23 13:55 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0015	1		EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID: QBHg11292023A-011

Sampled: 11/17/23 14:30 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0006	1		EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID: QBHg11292023A-012

Sampled: 11/17/23 08:20 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID: QBHg11292023A-015

Sampled: 11/17/23 09:45 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID: QBHg11292023A-016

Sampled: 11/17/23 11:05 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: WET

METHOD: Calculation

No data validation qualifiers were added

MKP 2/7/2024

DATA PACKAGE COVER PAGE

Calculation

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

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Signature:

Name: Cassie L. Mosher

Date: 12/28/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID:

Sampled: 11/17/23 11:50 Prepared: 11/29/23 06:34 Analyzed: 11/30/23 18:34

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31801 Sequence: Calibration: 11/30/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID:

Sampled: 11/17/23 13:55 Prepared: 11/29/23 06:34 Analyzed: 11/30/23 18:34

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31801 Sequence: Calibration: 11/30/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID:

Sampled: 11/17/23 14:30 Prepared: 11/29/23 06:34 Analyzed: 11/30/23 18:34

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31801 Sequence: Calibration: 11/30/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID:

Sampled: 11/17/23 08:20 Prepared: 11/29/23 06:34 Analyzed: 11/30/23 18:34

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31801 Sequence: Calibration: 11/30/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID:

Sampled: 11/17/23 09:45 Prepared: 11/29/23 06:34 Analyzed: 11/30/23 18:34

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31801 Sequence: Calibration: 11/30/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID:

Sampled: 11/17/23 11:05 Prepared: 11/29/23 06:34 Analyzed: 11/30/23 18:34

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31801 Sequence: Calibration: 11/30/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: WET

METHOD: EPA 7196A

DATA PACKAGE COVER PAGE

EPA 7196A

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

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Signature:

Name: Cassie L. Mosher

Date: 12/28/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID:

Sampled: 11/17/23 11:50 Prepared: 11/17/23 21:46 Analyzed: 11/17/23 22:26

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31201 Sequence: Calibration: 11/17/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID:

Sampled: 11/17/23 13:55 Prepared: 11/17/23 21:46 Analyzed: 11/17/23 22:26

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31201 Sequence: Calibration: 11/17/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID:

Sampled: 11/17/23 14:30 Prepared: 11/17/23 21:46 Analyzed: 11/17/23 22:26

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31201 Sequence: Calibration: 11/17/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID:

Sampled: 11/17/23 08:20 Prepared: 11/17/23 21:46 Analyzed: 11/17/23 22:26

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31201 Sequence: Calibration: 11/17/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID:

Sampled: 11/17/23 09:45 Prepared: 11/17/23 21:46 Analyzed: 11/17/23 22:26

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31201 Sequence: Calibration: 11/17/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID:

Sampled: 11/17/23 11:05 Prepared: 11/17/23 21:46 Analyzed: 11/17/23 22:26

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31201 Sequence: Calibration: 11/17/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A	UJ

MKP 2/7/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

CLASS: WET

METHOD: SM 4500 CN C-2016 / E-2016

No data validation qualifiers were added

MKP 2/7/2024

DATA PACKAGE COVER PAGE

SM 4500 CN C-2016 / E-2016

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1273

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23MW1	23K1273-01
23MW2	23K1273-02
23MW3	23K1273-03
23MW8	23K1273-04
23MW9	23K1273-05
23MW10	23K1273-06

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Signature:

Name: Cassie L. Mosher

Date: 12/28/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-01 File ID:

Sampled: 11/17/23 11:50 Prepared: 11/22/23 12:27 Analyzed: 11/22/23 19:35

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BK31494 Sequence: Calibration: 11/22/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.0320	1		SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-02 File ID:

Sampled: 11/17/23 13:55 Prepared: 11/24/23 09:24 Analyzed: 11/24/23 13:03

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 1 mL / 50 mL

Batch: BK31537 Sequence: Calibration: 11/24/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	1.65	1		SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-03 File ID:

Sampled: 11/17/23 14:30 Prepared: 11/24/23 09:24 Analyzed: 11/24/23 13:03

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 1 mL / 50 mL

Batch: BK31537 Sequence: Calibration: 11/24/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	1.40	1		SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-04 File ID:

Sampled: 11/17/23 08:20 Prepared: 11/24/23 09:24 Analyzed: 11/24/23 13:03

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 1 mL / 50 mL

Batch: BK31537 Sequence: Calibration: 11/24/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	2.20	1		SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-05 File ID:

Sampled: 11/17/23 09:45 Prepared: 11/24/23 09:24 Analyzed: 11/24/23 13:03

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 1 mL / 50 mL

Batch: BK31537 Sequence: Calibration: 11/24/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.650	1		SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Matrix: Ground Water Laboratory ID: 23K1273-06 File ID:

Sampled: 11/17/23 11:05 Prepared: 11/24/23 09:24 Analyzed: 11/24/23 13:03

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 1 mL / 50 mL

Batch: BK31537 Sequence: Calibration: 11/24/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	1.20	1		SM 4500 CN C-2016 / E-2016

Appendix B

Laboratory QC Documentation

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31486	Laboratory ID:	BK31486-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.8	97.5	82 - 126
1,1,1-Trichloroethane	10.0	9.4	94.5	78 - 136
1,1,2,2-Tetrachloroethane	10.0	11	114	76 - 129
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	11	106	54 - 165
1,1,2-Trichloroethane	10.0	9.7	97.3	82 - 123
1,1-Dichloroethane	10.0	9.4	94.1	82 - 129
1,1-Dichloroethylene	10.0	11	107	68 - 138
1,2,3-Trichlorobenzene	10.0	11	107	40 - 130
1,2,3-Trichloropropane	10.0	9.9	99.1	77 - 128
1,2,4-Trichlorobenzene	10.0	11	107	65 - 137
1,2,4-Trimethylbenzene	10.0	11	108	82 - 132
1,2-Dibromo-3-chloropropane	10.0	10	102	45 - 147
1,2-Dibromoethane	10.0	10	102	83 - 124
1,2-Dichlorobenzene	10.0	10	99.8	79 - 123
1,2-Dichloroethane	10.0	10	104	73 - 132
1,2-Dichloropropane	10.0	10	104	78 - 126
1,3,5-Trimethylbenzene	10.0	11	108	80 - 131
1,3-Dichlorobenzene	10.0	10	101	86 - 130
1,4-Dichlorobenzene	10.0	9.9	99.0	85 - 130
1,4-Dioxane	210	94	44.9	10 - 349
2-Butanone	10.0	3.4	33.8 *	49 - 152
2-Hexanone	10.0	1.1	11.4 *	51 - 146
4-Methyl-2-pentanone	10.0	11	105	57 - 145
Acetone	10.0	6.4	63.6	14 - 150
Acrolein	10.0	8.8	87.9	10 - 153
Acrylonitrile	10.0	9.5	95.3	51 - 150
Benzene	10.0	9.7	97.1	85 - 126
Bromochloromethane	10.0	9.9	98.6	77 - 128
Bromodichloromethane	10.0	10	103	79 - 128
Bromoform	10.0	9.5	95.0	78 - 133

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31486	Laboratory ID:	BK31486-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	8.1	81.0	43 - 168
Carbon disulfide	10.0	10	104	68 - 146
Carbon tetrachloride	10.0	9.4	94.5	77 - 141
Chlorobenzene	10.0	9.9	98.8	88 - 120
Chloroethane	10.0	10	103	65 - 136
Chloroform	10.0	9.4	94.1	82 - 128
Chloromethane	10.0	11	114	43 - 155
cis-1,2-Dichloroethylene	10.0	10	99.8	83 - 129
cis-1,3-Dichloropropylene	10.0	9.9	99.1	80 - 131
Cyclohexane	10.0	10	100	63 - 149
Dibromochloromethane	10.0	10	99.7	80 - 130
Dibromomethane	10.0	10	99.6	72 - 134
Dichlorodifluoromethane	10.0	14	137	44 - 144
Ethyl Benzene	10.0	10	104	80 - 131
Hexachlorobutadiene	10.0	11	111	67 - 146
Isopropylbenzene	10.0	10	104	76 - 140
Methyl acetate	10.0	10	101	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	9.4	93.8	76 - 135
Methylcyclohexane	10.0	10	104	72 - 143
Methylene chloride	10.0	10	100	55 - 137
n-Butylbenzene	10.0	11	115	79 - 132
n-Propylbenzene	10.0	11	107	78 - 133
o-Xylene	10.0	10	102	78 - 130
p- & m- Xylenes	20.0	21	106	77 - 133
p-Isopropyltoluene	10.0	11	107	81 - 136
sec-Butylbenzene	10.0	11	107	79 - 137
Styrene	10.0	10	102	67 - 132
tert-Butyl alcohol (TBA)	50.0	55	111	25 - 162
tert-Butylbenzene	10.0	10	103	77 - 138
Tetrachloroethylene	10.0	5.5	54.9 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31486	Laboratory ID:	BK31486-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	9.0	90.3	10.9	30	43 - 168
Carbon disulfide	10.0	10	101	3.80	30	68 - 146
Carbon tetrachloride	10.0	9.3	92.8	1.82	30	77 - 141
Chlorobenzene	10.0	9.9	98.8	0.00	30	88 - 120
Chloroethane	10.0	10	99.5	3.07	30	65 - 136
Chloroform	10.0	9.5	94.7	0.636	30	82 - 128
Chloromethane	10.0	12	116	1.30	30	43 - 155
cis-1,2-Dichloroethylene	10.0	9.8	98.0	1.82	30	83 - 129
cis-1,3-Dichloropropylene	10.0	10	101	2.10	30	80 - 131
Cyclohexane	10.0	9.8	98.3	1.91	30	63 - 149
Dibromochloromethane	10.0	10	104	4.61	30	80 - 130
Dibromomethane	10.0	10	102	2.38	30	72 - 134
Dichlorodifluoromethane	10.0	13	134	2.51	30	44 - 144
Ethyl Benzene	10.0	10	102	0.971	30	80 - 131
Hexachlorobutadiene	10.0	10	103	7.93	30	67 - 146
Isopropylbenzene	10.0	9.9	98.9	5.22	30	76 - 140
Methyl acetate	10.0	11	108	7.17	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	104	9.83	30	76 - 135
Methylcyclohexane	10.0	10	100	3.83	30	72 - 143
Methylene chloride	10.0	10	102	1.87	30	55 - 137
n-Butylbenzene	10.0	11	110	4.45	30	79 - 132
n-Propylbenzene	10.0	10	102	5.07	30	78 - 133
o-Xylene	10.0	10	102	0.687	30	78 - 130
p- & m- Xylenes	20.0	21	103	2.34	30	77 - 133
p-Isopropyltoluene	10.0	10	104	3.13	30	81 - 136
sec-Butylbenzene	10.0	10	102	4.11	30	79 - 137
Styrene	10.0	10	102	0.00	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	64	127	13.5	30	25 - 162
tert-Butylbenzene	10.0	9.9	98.7	4.26	30	77 - 138
Tetrachloroethylene	10.0	5.3	52.7 *	4.09	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31642	Laboratory ID:	BK31642-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	4.3	43.2	43 - 168
Carbon disulfide	10.0	11	108	68 - 146
Carbon tetrachloride	10.0	11	110	77 - 141
Chlorobenzene	10.0	9.7	97.0	88 - 120
Chloroethane	10.0	12	118	65 - 136
Chloroform	10.0	11	111	82 - 128
Chloromethane	10.0	8.3	83.1	43 - 155
cis-1,2-Dichloroethylene	10.0	11	111	83 - 129
cis-1,3-Dichloropropylene	10.0	9.5	94.6	80 - 131
Cyclohexane	10.0	10	101	63 - 149
Dibromochloromethane	10.0	9.5	94.9	80 - 130
Dibromomethane	10.0	9.9	98.9	72 - 134
Dichlorodifluoromethane	10.0	9.5	95.3	44 - 144
Ethyl Benzene	10.0	10	102	80 - 131
Hexachlorobutadiene	10.0	8.1	81.1	67 - 146
Isopropylbenzene	10.0	9.6	95.9	76 - 140
Methyl acetate	10.0	8.4	84.5	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	105	76 - 135
Methylcyclohexane	10.0	9.3	92.9	72 - 143
Methylene chloride	10.0	10	101	55 - 137
n-Butylbenzene	10.0	10	102	79 - 132
n-Propylbenzene	10.0	9.5	95.1	78 - 133
o-Xylene	10.0	10	99.8	78 - 130
p- & m- Xylenes	20.0	20	102	77 - 133
p-Isopropyltoluene	10.0	9.4	94.1	81 - 136
sec-Butylbenzene	10.0	9.4	93.9	79 - 137
Styrene	10.0	10	99.9	67 - 132
tert-Butyl alcohol (TBA)	50.0	52	105	25 - 162
tert-Butylbenzene	10.0	9.0	90.4	77 - 138
Tetrachloroethylene	10.0	4.7	47.0 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31642	Laboratory ID:	BK31642-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Toluene	10.0	10	102	80 - 127
trans-1,2-Dichloroethylene	10.0	11	110	80 - 132
trans-1,3-Dichloropropylene	10.0	9.7	97.4	78 - 131
trans-1,4-dichloro-2-butene	10.0	10	99.8	63 - 141
Trichloroethylene	10.0	9.6	95.9	82 - 128
Trichlorofluoromethane	10.0	14	144 *	67 - 139
Vinyl Chloride	10.0	10	99.7	58 - 145

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31642	Laboratory ID:	BK31642-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	4.8	48.1	10.7	30	43 - 168
Carbon disulfide	10.0	10	102	6.10	30	68 - 146
Carbon tetrachloride	10.0	11	107	3.14	30	77 - 141
Chlorobenzene	10.0	9.6	95.8	1.24	30	88 - 120
Chloroethane	10.0	11	113	4.16	30	65 - 136
Chloroform	10.0	11	109	2.45	30	82 - 128
Chloromethane	10.0	7.9	78.9	5.19	30	43 - 155
cis-1,2-Dichloroethylene	10.0	11	106	5.35	30	83 - 129
cis-1,3-Dichloropropylene	10.0	9.3	92.9	1.81	30	80 - 131
Cyclohexane	10.0	9.6	95.6	5.69	30	63 - 149
Dibromochloromethane	10.0	9.4	94.3	0.634	30	80 - 130
Dibromomethane	10.0	9.6	96.5	2.46	30	72 - 134
Dichlorodifluoromethane	10.0	8.9	89.2	6.61	30	44 - 144
Ethyl Benzene	10.0	10	99.9	2.08	30	80 - 131
Hexachlorobutadiene	10.0	8.0	79.6	1.87	30	67 - 146
Isopropylbenzene	10.0	9.6	95.6	0.313	30	76 - 140
Methyl acetate	10.0	8.4	83.6	1.07	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	104	0.861	30	76 - 135
Methylcyclohexane	10.0	9.1	90.6	2.51	30	72 - 143
Methylene chloride	10.0	10	99.8	1.59	30	55 - 137
n-Butylbenzene	10.0	8.5	84.8	18.5	30	79 - 132
n-Propylbenzene	10.0	9.5	94.9	0.211	30	78 - 133
o-Xylene	10.0	9.9	98.7	1.11	30	78 - 130
p- & m- Xylenes	20.0	20	99.8	1.84	30	77 - 133
p-Isopropyltoluene	10.0	9.5	95.3	1.27	30	81 - 136
sec-Butylbenzene	10.0	9.6	95.7	1.90	30	79 - 137
Styrene	10.0	9.9	98.8	1.11	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	53	105	0.610	30	25 - 162
tert-Butylbenzene	10.0	9.2	92.0	1.75	30	77 - 138
Tetrachloroethylene	10.0	4.6	46.0 *	2.15	30	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31755	Laboratory ID:	BK31755-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	9.0	90.2	43 - 168
Carbon disulfide	10.0	11	107	68 - 146
Carbon tetrachloride	10.0	9.8	98.2	77 - 141
Chlorobenzene	10.0	9.9	98.8	88 - 120
Chloroethane	10.0	10	103	65 - 136
Chloroform	10.0	9.8	97.5	82 - 128
Chloromethane	10.0	12	123	43 - 155
cis-1,2-Dichloroethylene	10.0	10	102	83 - 129
cis-1,3-Dichloropropylene	10.0	9.9	99.0	80 - 131
Cyclohexane	10.0	10	101	63 - 149
Dibromochloromethane	10.0	10	103	80 - 130
Dibromomethane	10.0	10	103	72 - 134
Dichlorodifluoromethane	10.0	14	136	44 - 144
Ethyl Benzene	10.0	10	103	80 - 131
Hexachlorobutadiene	10.0	11	108	67 - 146
Isopropylbenzene	10.0	10	99.5	76 - 140
Methyl acetate	10.0	10	104	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	103	76 - 135
Methylcyclohexane	10.0	10	102	72 - 143
Methylene chloride	10.0	10	100	55 - 137
n-Butylbenzene	10.0	11	110	79 - 132
n-Propylbenzene	10.0	10	103	78 - 133
o-Xylene	10.0	10	101	78 - 130
p- & m- Xylenes	20.0	21	104	77 - 133
p-Isopropyltoluene	10.0	10	105	81 - 136
sec-Butylbenzene	10.0	10	103	79 - 137
Styrene	10.0	10	102	67 - 132
tert-Butyl alcohol (TBA)	50.0	62	124	25 - 162
tert-Butylbenzene	10.0	10	99.6	77 - 138
Tetrachloroethylene	10.0	5.4	54.1 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31755	Laboratory ID:	BK31755-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	11	105		15.5	30	43 - 168
Carbon disulfide	10.0	11	106		1.22	30	68 - 146
Carbon tetrachloride	10.0	9.8	97.8		0.408	30	77 - 141
Chlorobenzene	10.0	9.9	98.9		0.101	30	88 - 120
Chloroethane	10.0	10	104		1.06	30	65 - 136
Chloroform	10.0	9.8	98.2		0.715	30	82 - 128
Chloromethane	10.0	12	120		2.14	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10	102		0.196	30	83 - 129
cis-1,3-Dichloropropylene	10.0	10	102		3.08	30	80 - 131
Cyclohexane	10.0	10	101		0.496	30	63 - 149
Dibromochloromethane	10.0	11	107		4.01	30	80 - 130
Dibromomethane	10.0	10	105		1.93	30	72 - 134
Dichlorodifluoromethane	10.0	14	136		0.515	30	44 - 144
Ethyl Benzene	10.0	10	102		0.586	30	80 - 131
Hexachlorobutadiene	10.0	10	102		5.69	30	67 - 146
Isopropylbenzene	10.0	9.7	96.6		2.96	30	76 - 140
Methyl acetate	10.0	11	109		4.49	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	112		7.73	30	76 - 135
Methylcyclohexane	10.0	10	99.6		2.09	30	72 - 143
Methylene chloride	10.0	10	103		2.75	30	55 - 137
n-Butylbenzene	10.0	11	108		1.83	30	79 - 132
n-Propylbenzene	10.0	10	99.7		3.35	30	78 - 133
o-Xylene	10.0	10	101		0.0989	30	78 - 130
p- & m- Xylenes	20.0	21	103		1.06	30	77 - 133
p-Isopropyltoluene	10.0	10	102		2.22	30	81 - 136
sec-Butylbenzene	10.0	10	100		2.95	30	79 - 137
Styrene	10.0	10	103		0.780	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	67	135		7.99	30	25 - 162
tert-Butylbenzene	10.0	9.7	97.3		2.34	30	77 - 138
Tetrachloroethylene	10.0	5.4	53.6	*	0.929	30	82 - 131

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30015
Instrument: VOA No. 8
Calibration Date: 11/03/23 08:21

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.252487	16.09627	8.937625	1.502891E-02		0.9994804	0.99	
1,1,1-Trichloroethane	1.676194	12.47571	5.173125	4.838367E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4083268	3.235743	10.28825	2.687498E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.9052299	5.663156	3.00525	0.1026015			SPCC (0.1)	
1,1,2-Trichloroethane	0.1638889	7.168131	7.84425	3.410324E-02			SPCC (0.1)	
1,1-Dichloroethane	1.71564	10.89537	4.19	1.543197E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.319827	7.391632	3.039375	9.240386E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.377977	12.21371	5.320125	5.070292E-02			20	
1,2,3-Trichlorobenzene	0.3191153	6.390812	14.222	1.572699E-02			20	
1,2,3-Trichloropropane	0.1229479	11.51619	10.33525	2.783048E-02			20	
1,2,4,5-Tetramethylbenzene	1.76123	3.678628	12.606	1.890681E-02			20	
1,2,4-Trichlorobenzene	0.4262647	8.03048	13.6465	2.035218E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.304133	6.394563	10.93563	1.679805E-02			20	
1,2-Dibromo-3-chloropropane	6.500658E-02	9.461586	12.753	2.251016E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1535879	8.414096	8.376	2.429507E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.048737	8.569552	11.82787	9.896169E-03			SPCC (0.4)	
1,2-Dichloroethane	0.9439081	9.113743	5.591625	5.066179E-02			SPCC (0.1)	
1,2-Dichloropropane	0.237461	7.037048	6.380375	5.044474E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.365377	5.541924	10.51	2.653807E-02			20	
1,3-Dichlorobenzene	1.215782	13.00782	11.294	6.619869E-03			SPCC (0.6)	
1,3-Dichloropropane	0.28404	7.461732	8.01125	1.482835E-02			20	
1,4-Dichlorobenzene	1.195445	11.38534	11.39713	2.700964E-02			SPCC (0.5)	
1,4-Dioxane	1.12822E-03	28.08788	6.51725	0.0441906		0.9989541	0.99	
2,2-Dichloropropane	1.519586	7.086546	4.7085	6.176185E-02			20	
2-Butanone	6.586937E-02	22.24638	4.763429	8.055623E-02		0.9993472	SPCC (0.1)	
2-Chlorotoluene	2.404439	7.792115	10.44687	2.231395E-02			20	
2-Hexanone	9.722319E-02	7.063256	8.057625	4.675217E-02			SPCC (0.1)	
4-Chlorotoluene	2.059142	4.941344	10.57125	0.0174712			20	
4-Methyl-2-pentanone	0.1237697	7.445146	7.2125	3.829822E-02			SPCC (0.1)	
Acetone	0.2617927	47.91182	3.145	8.380614E-02		0.9992991	SPCC (0.1)	
Acrolein	5.997976E-02	4.101672	2.9925	4.764323E-03			20	
Acrylonitrile	0.1307435	5.561161	3.823125	6.920304E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30023
Instrument: VOA No. 10
Calibration Date: 11/13/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2043132	7.835886	9.628	2.134549E-02			20	
1,1,1-Trichloroethane	1.31616	8.508703	5.817	1.240228E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.2847887	5.757991	10.979	2.391796E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.165737	8.352415	3.02225	8.899023E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.1249969	4.704316	8.51775	4.483666E-02			SPCC (0.1)	
1,1-Dichloroethane	1.620439	7.740313	4.804375	0.0392926			SPCC (0.2)	
1,1-Dichloroethylene	1.201651	6.701393	3.593625	9.753026E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.263368	6.664918	5.969	4.968925E-02			20	
1,2,3-Trichlorobenzene	0.1856812	7.528253	14.96288	2.210176E-02			20	
1,2,3-Trichloropropane	8.673113E-02	5.53618	11.03225	4.034685E-02			20	
1,2,4,5-Tetramethylbenzene	1.566518	8.402841	13.31037	2.183343E-02			20	
1,2,4-Trichlorobenzene	0.3226344	5.819927	14.37912	2.870091E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.470927	7.245235	11.63113	7.121948E-03			20	
1,2-Dibromo-3-chloropropane	3.609697E-02	8.117747	13.48088	3.879642E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1114937	6.49781	9.071625	4.330319E-02			SPCC (0.1)	
1,2-Dichlorobenzene	0.9558958	6.923761	12.548	2.439198E-02			SPCC (0.4)	
1,2-Dichloroethane	0.6602432	5.479099	6.2455	3.825149E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2347168	5.762307	7.04725	4.284907E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.565678	9.261794	11.19825	1.962082E-02			20	
1,3-Dichlorobenzene	1.235505	9.365939	12.006	3.043911E-02			SPCC (0.6)	
1,3-Dichloropropane	0.2250245	5.689955	8.691	2.047404E-02			20	
1,4-Dichlorobenzene	1.202635	9.229982	12.10775	1.708694E-02			SPCC (0.5)	
1,4-Dioxane	7.185599E-04	12.07121	7.185375	5.388971E-02			20	
2,2-Dichloropropane	1.336593	5.120614	5.3425	0.0276503			20	
2-Butanone	4.470198E-02	13.45601	5.39025	0.10413			SPCC (0.1)	
2-Chlorotoluene	2.609075	9.683838	11.152	3.338235E-02			20	
2-Hexanone	0.0477914	7.770146	8.7235	3.760743E-02			SPCC (0.1)	
4-Chlorotoluene	2.166081	8.026603	11.276	2.202936E-02			20	
4-Methyl-2-pentanone	7.071489E-02	6.745571	7.872625	6.147673E-02			SPCC (0.1)	
Acetone	0.1029164	14.62678	3.69925	9.755937E-02			SPCC (0.1)	
Acrolein	4.106104E-02	8.213542	3.542	0.1051263			20	
Acrylonitrile	0.1030886	8.985775	4.42075	8.241475E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30023
Instrument: VOA No. 10
Calibration Date: 11/13/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.867295	5.961473	6.1845	1.863724E-02			SPCC (0.5)	
Bromobenzene	1.010382	7.871261	10.96562	2.371528E-02			20	
Bromochloromethane	0.5546638	6.635638	5.6175	6.159754E-02			20	
Bromodichloromethane	0.2548346	7.407525	7.325875	2.376526E-02			SPCC (0.2)	
Bromoform	6.821166E-02	8.967985	10.48425	1.865824E-02			SPCC (0.1)	
Bromomethane	0.3934499	33.71346	2.6465	0.1178845		0.9985315	SPCC (0.1)	
Carbon disulfide	2.421762	2.786638	3.8375	4.328812E-02			SPCC (0.1)	
Carbon tetrachloride	1.134902	8.250361	5.961375	3.775895E-02			SPCC (0.1)	
Chlorobenzene	0.694694	6.272974	9.5415	1.578779E-02			SPCC (0.5)	
Chloroethane	0.6669515	6.924552	2.762375	9.084165E-02			SPCC (0.1)	
Chloroform	1.454524	7.218369	5.676125	0.0314738			SPCC (0.2)	
Chloromethane	0.815465	9.149658	2.11625	0.1280819			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.350556	8.646566	5.370875	0.0572978			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.3490926	6.581658	7.746	2.522531E-02			SPCC (0.2)	
Cyclohexane	1.795318	5.417595	5.83325	2.221957E-02			SPCC (0.1)	
Dibromochloromethane	0.1454692	8.999173	8.942375	0.023576			SPCC (0.1)	
Dibromomethane	8.387346E-02	4.023995	7.194125	2.024872E-02			20	
Dichlorodifluoromethane	0.7492901	8.340477	1.881375	5.367423E-02			SPCC (0.1)	
Ethyl Benzene	1.263362	6.585365	9.61125	1.476849E-02			SPCC (0.1)	
Hexachlorobutadiene	0.1656709	5.004916	14.51025	1.622774E-02			20	
Isopropylbenzene	3.529169	8.89672	10.55562	1.084228E-02			SPCC (0.1)	
Methyl acetate	0.2206295	6.069689	4.335375	0.093104			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	1.357067	6.027833	4.334125	5.898096E-02			SPCC (0.1)	
Methylcyclohexane	0.5191845	6.490405	6.924	3.968931E-02			SPCC (0.1)	
Methylene chloride	0.9739835	3.661314	4.133125	0.0527159			SPCC (0.1)	
Naphthalene	0.5403382	4.998807	14.68462	2.422793E-02			20	
n-Butylbenzene	2.544573	7.197986	12.44037	7.298363E-03			20	
n-Propylbenzene	4.0777	8.690692	11.01062	7.514774E-03			20	
o-Xylene	0.9404569	6.708659	10.17475	2.804037E-02			SPCC (0.3)	
p- & m- Xylenes	0.9359828	7.322255	9.729375	0.0269442			SPCC (0.1)	
p-Diethylbenzene	1.375449	9.429349	12.40762	1.803794E-02			20	
p-Ethyltoluene	3.340405	9.045843	11.13313	0.0315766			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.04	-9.6	30.00
1,1,1-Trichloroethane	10.0	9.87	-1.3	30.00
1,1,2,2-Tetrachloroethane	10.0	10.2	2.1	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	2.1	30.00
1,1,2-Trichloroethane	10.0	9.60	-4.0	30.00
1,1-Dichloroethane	10.0	9.18	-8.2	30.00
1,1-Dichloroethylene	10.0	10.0	0.2	30.00
1,2,3-Trichlorobenzene	10.0	8.85	-11.5	30.00
1,2,3-Trichloropropane	10.0	10.0	0.2	30.00
1,2,4-Trichlorobenzene	10.0	9.01	-9.9	30.00
1,2,4-Trimethylbenzene	10.0	10.1	1.1	30.00
1,2-Dibromo-3-chloropropane	10.0	10.2	2.4	30.00
1,2-Dibromoethane	10.0	9.89	-1.1	30.00
1,2-Dichlorobenzene	10.0	9.60	-4.0	30.00
1,2-Dichloroethane	10.0	9.75	-2.5	30.00
1,2-Dichloropropane	10.0	9.75	-2.5	30.00
1,3,5-Trimethylbenzene	10.0	9.99	-0.1	30.00
1,3-Dichlorobenzene	10.0	9.49	-5.1	30.00
1,4-Dichlorobenzene	10.0	9.40	-6.0	30.00
1,4-Dioxane	210	173	-17.4	30.00
2-Butanone	10.0	9.03	-9.7	30.00
2-Hexanone	10.0	8.14	-18.6	30.00
4-Methyl-2-pentanone	10.0	9.01	-9.9	30.00
Acetone	10.0	16.2	61.8 *	30.00
Acrolein	10.0	11.1	10.6	30.00
Acrylonitrile	10.0	9.86	-1.4	30.00
Benzene	10.0	9.96	-0.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.88	-1.2	30.00
sec-Butylbenzene	10.0	9.82	-1.8	30.00
Styrene	10.0	9.86	-1.4	30.00
tert-Butyl alcohol (TBA)	50.0	47.9	-4.2	30.00
tert-Butylbenzene	10.0	9.77	-2.3	30.00
Tetrachloroethylene	10.0	4.90	-51.0 *	30.00
Toluene	10.0	9.94	-0.6	30.00
trans-1,2-Dichloroethylene	10.0	9.65	-3.5	30.00
trans-1,3-Dichloropropylene	10.0	9.46	-5.4	30.00
trans-1,4-dichloro-2-butene	10.0	9.28	-7.2	30.00
Trichloroethylene	10.0	9.52	-4.8	30.00
Trichlorofluoromethane	10.0	10.9	8.8	30.00
Vinyl Chloride	10.0	10.8	7.8	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30023
Laboratory ID: S3K1425-SCV1
Sequence: S3K1425
Standard ID: S23K113

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.38	-6.2	30.00
1,1,1-Trichloroethane	10.0	8.91	-10.9	30.00
1,1,2,2-Tetrachloroethane	10.0	10.8	7.9	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.75	-2.5	30.00
1,1,2-Trichloroethane	10.0	9.65	-3.5	30.00
1,1-Dichloroethane	10.0	8.84	-11.6	30.00
1,1-Dichloroethylene	10.0	9.62	-3.8	30.00
1,2,3-Trichlorobenzene	10.0	10.1	0.6	30.00
1,2,3-Trichloropropane	10.0	9.60	-4.0	30.00
1,2,4-Trichlorobenzene	10.0	9.67	-3.3	30.00
1,2,4-Trimethylbenzene	10.0	9.67	-3.3	30.00
1,2-Dibromo-3-chloropropane	10.0	10.4	4.3	30.00
1,2-Dibromoethane	10.0	9.93	-0.7	30.00
1,2-Dichlorobenzene	10.0	9.41	-5.9	30.00
1,2-Dichloroethane	10.0	9.60	-4.0	30.00
1,2-Dichloropropane	10.0	9.61	-3.9	30.00
1,3,5-Trimethylbenzene	10.0	9.63	-3.7	30.00
1,3-Dichlorobenzene	10.0	9.48	-5.2	30.00
1,4-Dichlorobenzene	10.0	9.35	-6.5	30.00
1,4-Dioxane	210	96.2	-54.2 *	30.00
2-Butanone	10.0	8.63	-13.7	30.00
2-Hexanone	10.0	9.06	-9.4	30.00
4-Methyl-2-pentanone	10.0	9.57	-4.3	30.00
Acetone	10.0	6.13	-38.7 *	30.00
Acrolein	10.0	10.9	9.3	30.00
Acrylonitrile	10.0	9.92	-0.8	30.00
Benzene	10.0	9.30	-7.0	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SK30023
Laboratory ID: S3K1425-SCV1
Sequence: S3K1425
Standard ID: S23K113

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.55	-4.5	30.00
sec-Butylbenzene	10.0	9.37	-6.3	30.00
Styrene	10.0	9.62	-3.8	30.00
tert-Butyl alcohol (TBA)	50.0	63.9	27.7	30.00
tert-Butylbenzene	10.0	9.26	-7.4	30.00
Tetrachloroethylene	10.0	5.21	-47.9 *	30.00
Toluene	10.0	9.56	-4.4	30.00
trans-1,2-Dichloroethylene	10.0	9.06	-9.4	30.00
trans-1,3-Dichloropropylene	10.0	9.43	-5.7	30.00
trans-1,4-dichloro-2-butene	10.0	10.0	0.2	30.00
Trichloroethylene	10.0	8.99	-10.1	30.00
Trichlorofluoromethane	10.0	9.75	-2.5	30.00
Vinyl Chloride	10.0	10.1	1.3	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021796.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2719	Injection Date:	11/22/23
Lab Sample ID:	S3K2719-CCV1	Injection Time:	09:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	9.88	0.2043132	0.2018742		-1.2	20
1,1,1-Trichloroethane	A	10.0	9.93	1.31616	1.306589	0.1	-0.7	20
1,1,2,2-Tetrachloroethane	A	10.0	11.1	0.2847887	0.3165437	0.3	11.2	20
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	10.0	10.0	1.165737	1.169894	0.1	0.4	20
1,1,2-Trichloroethane	A	10.0	10.2	0.1249969	0.1281065	0.1	2.5	20
1,1-Dichloroethane	A	10.0	9.92	1.620439	1.607488	0.2	-0.8	20
1,1-Dichloroethylene	A	10.0	10.3	1.201651	1.241117	0.1	3.3	20
1,2,3-Trichlorobenzene	A	10.0	11.2	0.1856812	0.2071786		11.6	20
1,2,3-Trichloropropane	A	10.0	9.89	8.673113E-02	8.581249E-02		-1.1	20
1,2,4-Trichlorobenzene	A	10.0	11.0	0.3226344	0.3560272	0.2	10.4	20
1,2,4-Trimethylbenzene	A	10.0	10.6	2.470927	2.630423		6.5	20
1,2-Dibromo-3-chloropropane	A	10.0	10.3	3.609697E-02	0.0371404	0.05 *	2.9	20
1,2-Dibromoethane	A	10.0	10.2	0.1114937	0.1132176	0.1	1.5	20
1,2-Dichlorobenzene	A	10.0	10.3	0.9558958	0.9861793	0.4	3.2	20
1,2-Dichloroethane	A	10.0	10.5	0.6602432	0.6940563	0.1	5.1	20
1,2-Dichloropropane	A	10.0	10.6	0.2347168	0.2495187	0.1	6.3	20
1,3,5-Trimethylbenzene	A	10.0	10.8	2.565678	2.75688		7.5	20
1,3-Dichlorobenzene	A	10.0	10.5	1.235505	1.296802	0.6	5.0	20
1,4-Dichlorobenzene	A	10.0	10.4	1.202635	1.250128	0.5	3.9	20
1,4-Dioxane	A	200	168	7.185599E-04	6.047866E-04		-15.8	20
2-Butanone	A	10.0	9.22	4.470198E-02	4.121116E-02	0.1	-7.8	20
2-Hexanone	A	10.0	11.2	0.0477914	5.330302E-02	0.1	11.5	20
4-Methyl-2-pentanone	A	10.0	10.8	7.071489E-02	7.653825E-02	0.1	8.2	20
Acetone	A	10.0	9.77	0.1029164	0.1005291	0.1	-2.3	20
Acrolein	A	10.0	8.77	4.106104E-02	0.0359939		-12.3	20
Acrylonitrile	A	10.0	9.92	0.1030886	0.1022802		-0.8	20
Benzene	A	10.0	9.68	3.867295	3.742938	0.5	-3.2	20
Bromochloromethane	A	10.0	10.4	0.5546638	0.5756984		3.8	20
Bromodichloromethane	A	10.0	10.6	0.2548346	0.2700364	0.2	6.0	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021796.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2719	Injection Date:	11/22/23
Lab Sample ID:	S3K2719-CCV1	Injection Time:	09:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	9.75	6.821166E-02	6.650165E-02	0.1	-2.5	20	
Bromomethane	A	10.0	7.24	0.3934499	0.2847653	0.1	-27.6	20	*
Carbon disulfide	A	10.0	9.93	2.421762	2.405289	0.1	-0.7	20	
Carbon tetrachloride	A	10.0	9.66	1.134902	1.096785	0.1	-3.4	20	
Chlorobenzene	A	10.0	9.98	0.694694	0.6932513	0.5	-0.2	20	
Chloroethane	A	10.0	9.73	0.6669515	0.6491099	0.1	-2.7	20	
Chloroform	A	10.0	9.82	1.454524	1.427705	0.2	-1.8	20	
Chloromethane	A	10.0	9.49	0.815465	0.7738196	0.1	-5.1	20	
cis-1,2-Dichloroethylene	A	10.0	10.1	1.350556	1.366999	0.1	1.2	20	
cis-1,3-Dichloropropylene	A	10.0	10.5	0.3490926	0.365656	0.2	4.7	20	
Cyclohexane	A	10.0	10.1	1.795318	1.812582	0.1	1.0	20	
Dibromochloromethane	A	10.0	10.0	0.1454692	0.1454596	0.1	-0.007	20	
Dibromomethane	A	10.0	10.3	8.387346E-02	8.609479E-02		2.6	20	
Dichlorodifluoromethane	A	10.0	9.20	0.7492901	0.6892382	0.1	-8.0	20	
Ethyl Benzene	A	10.0	10.4	1.263362	1.31359	0.1	4.0	20	
Hexachlorobutadiene	A	10.0	11.2	0.1656709	0.1850052		11.7	20	
Isopropylbenzene	A	10.0	10.3	3.529169	3.642752	0.1	3.2	20	
Methyl acetate	A	10.0	10.6	0.2206295	0.2337563	0.1	5.9	20	
Methyl tert-butyl ether (MTBE)	A	10.0	10.0	1.357067	1.361035	0.1	0.3	20	
Methylcyclohexane	A	10.0	10.7	0.5191845	0.5547574	0.1	6.9	20	
Methylene chloride	A	10.0	10.3	0.9739835	1.006773	0.1	3.4	20	
n-Butylbenzene	A	10.0	11.5	2.544573	2.928732		15.1	20	
n-Propylbenzene	A	10.0	10.8	4.0777	4.419704		8.4	20	
o-Xylene	A	10.0	10.4	0.9404569	0.9748904	0.3	3.7	20	
p- & m- Xylenes	A	20.0	21.4	0.9359828	1.001381	0.1	7.0	20	
p-Isopropyltoluene	A	10.0	10.8	2.733067	2.942926		7.7	20	
sec-Butylbenzene	A	10.0	10.9	3.349985	3.666161		9.4	20	
Styrene	A	10.0	10.3	0.7440062	0.7642815	0.3	2.7	20	
tert-Butyl alcohol (TBA)	A	50.0	56.5	2.141017E-02	2.140621E-02		12.9	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841464.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K2808	Injection Date:	11/27/23
Lab Sample ID:	S3K2808-CCV1	Injection Time:	09:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.05	0.252487	0.2409806		-9.5	20	
1,1,1-Trichloroethane	A	10.0	11.6	1.676194	1.944233	0.1	16.0	20	
1,1,2,2-Tetrachloroethane	A	10.0	9.23	0.4083268	0.3768834	0.3	-7.7	20	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	10.6	0.9052299	0.9559213	0.1	5.6	20	
1,1,2-Trichloroethane	A	10.0	9.42	0.1638889	0.1544535	0.1	-5.8	20	
1,1-Dichloroethane	A	10.0	11.1	1.71564	1.909947	0.2	11.3	20	
1,1-Dichloroethylene	A	10.0	10.8	1.319827	1.421558	0.1	7.7	20	
1,2,3-Trichlorobenzene	A	10.0	8.17	0.3191153	0.260648		-18.3	20	
1,2,3-Trichloropropane	A	10.0	9.27	0.1229479	0.1139931		-7.3	20	
1,2,4-Trichlorobenzene	A	10.0	8.37	0.4262647	0.3569712	0.2	-16.3	20	
1,2,4-Trimethylbenzene	A	10.0	9.84	2.304133	2.266887		-1.6	20	
1,2-Dibromo-3-chloropropane	A	10.0	9.58	6.500658E-02	0.0622906	0.05	-4.2	20	
1,2-Dibromoethane	A	10.0	9.50	0.1535879	0.1459425	0.1	-5.0	20	
1,2-Dichlorobenzene	A	10.0	9.14	1.048737	0.9584845	0.4	-8.6	20	
1,2-Dichloroethane	A	10.0	11.4	0.9439081	1.076287	0.1	14.0	20	
1,2-Dichloropropane	A	10.0	9.52	0.237461	0.2261355	0.1	-4.8	20	
1,3,5-Trimethylbenzene	A	10.0	9.71	2.365377	2.297387		-2.9	20	
1,3-Dichlorobenzene	A	10.0	9.10	1.215782	1.10694	0.6	-9.0	20	
1,4-Dichlorobenzene	A	10.0	9.09	1.195445	1.086659	0.5	-9.1	20	
1,4-Dioxane	A	200	164	1.12822E-03	1.140624E-03		-18.2	20	
2-Butanone	A	10.0	11.6	6.586937E-02	7.613343E-02	0.1	15.6	20	
2-Hexanone	A	10.0	8.30	9.722319E-02	8.070925E-02	0.1	-17.0	20	
4-Methyl-2-pentanone	A	10.0	8.41	0.1237697	0.1041266	0.1	-15.9	20	
Acetone	A	10.0	8.24	0.2617927	0.1645876	0.1	-17.6	20	
Acrolein	A	10.0	7.42	5.997976E-02	4.452932E-02		-25.8	20	*
Acrylonitrile	A	10.0	9.87	0.1307435	0.1290378		-1.3	20	
Benzene	A	10.0	11.1	3.916385	4.351437	0.5	11.1	20	
Bromochloromethane	A	10.0	11.1	0.5664581	0.6266582		10.6	20	
Bromodichloromethane	A	10.0	10.2	0.3228941	0.328999	0.2	1.9	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841464.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K2808	Injection Date:	11/27/23
Lab Sample ID:	S3K2808-CCV1	Injection Time:	09:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	8.06	0.104662	9.487775E-02	0.1	-19.4	20	
Bromomethane	A	10.0	3.46	0.9829663	0.3401495	0.1	-65.4	20	*
Carbon disulfide	A	10.0	10.7	2.28485	2.443881	0.1	7.0	20	
Carbon tetrachloride	A	10.0	11.4	1.471433	1.681706	0.1	14.3	20	
Chlorobenzene	A	10.0	9.76	0.7242045	0.706655	0.5	-2.4	20	
Chloroethane	A	10.0	12.3	0.9008924	1.108073	0.1	23.0	20	*
Chloroform	A	10.0	11.5	1.677331	1.935022	0.2	15.4	20	
Chloromethane	A	10.0	8.66	1.118135	0.9682695	0.1	-13.4	20	
cis-1,2-Dichloroethylene	A	10.0	11.5	1.45028	1.669748	0.1	15.1	20	
cis-1,3-Dichloropropylene	A	10.0	9.96	0.3896441	0.3879738	0.2	-0.4	20	
Cyclohexane	A	10.0	10.6	1.69539	1.79323	0.1	5.8	20	
Dibromochloromethane	A	10.0	9.51	0.2044674	0.1945318	0.1	-4.9	20	
Dibromomethane	A	10.0	10.1	0.1124353	0.1134002		0.9	20	
Dichlorodifluoromethane	A	10.0	11.1	0.9597646	1.069561	0.1	11.4	20	
Ethyl Benzene	A	10.0	10.1	1.349986	1.369274	0.1	1.4	20	
Hexachlorobutadiene	A	10.0	8.80	0.1196686	0.1052779		-12.0	20	
Isopropylbenzene	A	10.0	9.61	3.043018	2.924033	0.1	-3.9	20	
Methyl acetate	A	10.0	9.28	0.3475983	0.2920701	0.1	-7.2	20	
Methyl tert-butyl ether (MTBE)	A	10.0	11.0	2.055289	2.270259	0.1	10.5	20	
Methylcyclohexane	A	10.0	9.78	0.4933143	0.4826703	0.1	-2.2	20	
Methylene chloride	A	10.0	10.4	0.9924044	1.029027	0.1	3.7	20	
n-Butylbenzene	A	10.0	8.89	0.4197883	0.373077		-11.1	20	
n-Propylbenzene	A	10.0	9.73	3.517517	3.42336		-2.7	20	
o-Xylene	A	10.0	10.2	1.0445	1.064892	0.3	2.0	20	
p- & m- Xylenes	A	20.0	20.6	1.073196	1.105476	0.1	3.0	20	
p-Isopropyltoluene	A	10.0	9.56	2.33792	2.236029		-4.4	20	
sec-Butylbenzene	A	10.0	9.71	2.778702	2.69936		-2.9	20	
Styrene	A	10.0	10.1	0.8082976	0.8152802	0.3	0.9	20	
tert-Butyl alcohol (TBA)	A	50.0	52.9	5.388464E-02	5.697093E-02		5.7	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841464.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K2808	Injection Date:	11/27/23
Lab Sample ID:	S3K2808-CCV1	Injection Time:	09:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.35	2.025551	1.894838		-6.5	20	
Tetrachloroethylene	A	10.0	6.05	0.4668419	0.3372545	0.2	-39.5	20	*
Toluene	A	10.0	10.1	1.191132	1.199229	0.4	0.7	20	
trans-1,2-Dichloroethylene	A	10.0	11.4	1.284921	1.462323	0.1	13.8	20	
trans-1,3-Dichloropropylene	A	10.0	9.98	0.3172758	0.3166007	0.1	-0.2	20	
trans-1,4-dichloro-2-butene	A	10.0	10.3	0.3803903	0.3932749		3.4	20	
Trichloroethylene	A	10.0	9.85	0.2917918	0.2875154	0.2	-1.5	20	
Trichlorofluoromethane	A	10.0	15.1	1.980224	2.988597	0.1	50.9	20	*
Vinyl Chloride	A	10.0	10.7	1.220025	1.306902	0.1	7.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021819.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2817	Injection Date:	11/27/23
Lab Sample ID:	S3K2817-CCV1	Injection Time:	09:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	9.66	0.2043132	0.1972666		-3.4	20
1,1,1-Trichloroethane	A	10.0	9.64	1.31616	1.268722	0.1	-3.6	20
1,1,2,2-Tetrachloroethane	A	10.0	11.1	0.2847887	0.3165764	0.3	11.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	10.0	9.91	1.165737	1.154679	0.1	-0.9	20
1,1,2-Trichloroethane	A	10.0	10.2	0.1249969	0.12814	0.1	2.5	20
1,1-Dichloroethane	A	10.0	9.84	1.620439	1.594415	0.2	-1.6	20
1,1-Dichloroethylene	A	10.0	10.2	1.201651	1.219952	0.1	1.5	20
1,2,3-Trichlorobenzene	A	10.0	11.1	0.1856812	0.2054093		10.6	20
1,2,3-Trichloropropane	A	10.0	9.95	8.673113E-02	8.633688E-02		-0.5	20
1,2,4-Trichlorobenzene	A	10.0	10.6	0.3226344	0.3415303	0.2	5.9	20
1,2,4-Trimethylbenzene	A	10.0	9.97	2.470927	2.464739		-0.3	20
1,2-Dibromo-3-chloropropane	A	10.0	10.3	3.609697E-02	3.724359E-02	0.05	3.2	20
1,2-Dibromoethane	A	10.0	10.5	0.1114937	0.116985	0.1	4.9	20
1,2-Dichlorobenzene	A	10.0	9.88	0.9558958	0.9444014	0.4	-1.2	20
1,2-Dichloroethane	A	10.0	10.6	0.6602432	0.7002092	0.1	6.1	20
1,2-Dichloropropane	A	10.0	10.2	0.2347168	0.2381324	0.1	1.5	20
1,3,5-Trimethylbenzene	A	10.0	9.92	2.565678	2.543994		-0.8	20
1,3-Dichlorobenzene	A	10.0	9.92	1.235505	1.225313	0.6	-0.8	20
1,4-Dichlorobenzene	A	10.0	9.94	1.202635	1.195286	0.5	-0.6	20
1,4-Dioxane	A	200	209	7.185599E-04	7.519862E-04		4.7	20
2-Butanone	A	10.0	9.49	4.470198E-02	4.242157E-02	0.1	-5.1	20
2-Hexanone	A	10.0	11.7	0.0477914	5.570123E-02	0.1	16.6	20
4-Methyl-2-pentanone	A	10.0	11.0	7.071489E-02	7.777594E-02	0.1	10.0	20
Acetone	A	10.0	10.7	0.1029164	0.1103812	0.1	7.3	20
Acrolein	A	10.0	9.95	4.106104E-02	4.084965E-02		-0.5	20
Acrylonitrile	A	10.0	10.3	0.1030886	0.10576		2.6	20
Benzene	A	10.0	9.55	3.867295	3.692555	0.5	-4.5	20
Bromochloromethane	A	10.0	10.2	0.5546638	0.5685643		2.5	20
Bromodichloromethane	A	10.0	10.4	0.2548346	0.2658681	0.2	4.3	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021819.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2817	Injection Date:	11/27/23
Lab Sample ID:	S3K2817-CCV1	Injection Time:	09:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	10.1	6.821166E-02	6.905244E-02	0.1	1.2	20	
Bromomethane	A	10.0	7.54	0.3934499	0.2967303	0.1	-24.6	20	*
Carbon disulfide	A	10.0	9.97	2.421762	2.41548	0.1	-0.3	20	
Carbon tetrachloride	A	10.0	9.52	1.134902	1.08026	0.1	-4.8	20	
Chlorobenzene	A	10.0	9.70	0.694694	0.6739269	0.5	-3.0	20	
Chloroethane	A	10.0	9.70	0.6669515	0.6470432	0.1	-3.0	20	
Chloroform	A	10.0	9.50	1.454524	1.381562	0.2	-5.0	20	
Chloromethane	A	10.0	10.4	0.815465	0.8472918	0.1	3.9	20	
cis-1,2-Dichloroethylene	A	10.0	9.94	1.350556	1.342591	0.1	-0.6	20	
cis-1,3-Dichloropropylene	A	10.0	10.4	0.3490926	0.3633426	0.2	4.1	20	
Cyclohexane	A	10.0	9.86	1.795318	1.770786	0.1	-1.4	20	
Dibromochloromethane	A	10.0	10.2	0.1454692	0.1480199	0.1	1.8	20	
Dibromomethane	A	10.0	10.2	8.387346E-02	8.591895E-02		2.4	20	
Dichlorodifluoromethane	A	10.0	11.1	0.7492901	0.8291449	0.1	10.7	20	
Ethyl Benzene	A	10.0	9.98	1.263362	1.261075	0.1	-0.2	20	
Hexachlorobutadiene	A	10.0	11.0	0.1656709	0.1815192		9.6	20	
Isopropylbenzene	A	10.0	9.62	3.529169	3.394205	0.1	-3.8	20	
Methyl acetate	A	10.0	10.5	0.2206295	0.2316532	0.1	5.0	20	
Methyl tert-butyl ether (MTBE)	A	10.0	10.4	1.357067	1.418347	0.1	4.5	20	
Methylcyclohexane	A	10.0	10.0	0.5191845	0.5195167	0.1	0.06	20	
Methylene chloride	A	10.0	9.79	0.9739835	0.9531644	0.1	-2.1	20	
n-Butylbenzene	A	10.0	10.7	2.544573	2.732624		7.4	20	
n-Propylbenzene	A	10.0	10.1	4.0777	4.104217		0.7	20	
o-Xylene	A	10.0	10.1	0.9404569	0.9458584	0.3	0.6	20	
p- & m- Xylenes	A	20.0	20.5	0.9359828	0.9603005	0.1	2.6	20	
p-Isopropyltoluene	A	10.0	10.0	2.733067	2.742408		0.3	20	
sec-Butylbenzene	A	10.0	10.1	3.349985	3.388896		1.2	20	
Styrene	A	10.0	10.0	0.7440062	0.7469257	0.3	0.4	20	
tert-Butyl alcohol (TBA)	A	50.0	65.6	2.141017E-02	2.485435E-02		31.1	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021819.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2817	Injection Date:	11/27/23
Lab Sample ID:	S3K2817-CCV1	Injection Time:	09:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.78	2.365823	2.314089		-2.2	20	
Tetrachloroethylene	A	10.0	6.05	0.5061744	0.3064144	0.2	-39.5	20	*
Toluene	A	10.0	9.83	1.12352	1.104333	0.4	-1.7	20	
trans-1,2-Dichloroethylene	A	10.0	9.85	1.227463	1.209081	0.1	-1.5	20	
trans-1,3-Dichloropropylene	A	10.0	10.7	0.2453267	0.2619772	0.1	6.8	20	
trans-1,4-dichloro-2-butene	A	10.0	10.2	0.3541428	0.3619595		2.2	20	
Trichloroethylene	A	10.0	9.44	0.266782	0.2518137	0.2	-5.6	20	
Trichlorofluoromethane	A	10.0	9.91	1.165737	1.154679	0.1	-0.9	20	
Vinyl Chloride	A	10.0	10.7	1.037434	1.1088	0.1	6.9	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D SIM

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31716	Laboratory ID:	BK31716-BS2
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	1.00	0.480	48.0	25 - 116
Acenaphthylene	1.00	0.470	47.0	26 - 116
Anthracene	1.00	0.420	42.0	25 - 123
Benzo(a)anthracene	1.00	0.550	55.0	33 - 125
Benzo(a)pyrene	1.00	0.530	53.0	32 - 132
Benzo(b)fluoranthene	1.00	0.650	65.0	22 - 137
Benzo(g,h,i)perylene	1.00	0.800	80.0	10 - 138
Benzo(k)fluoranthene	1.00	0.710	71.0	20 - 137
Bis(2-ethylhexyl)phthalate	1.00	0.870	87.0	10 - 189
Chrysene	1.00	0.660	66.0	32 - 124
Dibenzo(a,h)anthracene	1.00	0.920	92.0	16 - 133
Fluoranthene	1.00	0.560	56.0	32 - 121
Fluorene	1.00	0.540	54.0	28 - 118
Hexachlorobenzene	1.00	0.620	62.0	23 - 124
Hexachlorobutadiene	1.00	0.700	70.0	15 - 123
Hexachloroethane	1.00	2.43	243 *	18 - 115
Indeno(1,2,3-cd)pyrene	1.00	0.860	86.0	15 - 135
Naphthalene	1.00	0.530	53.0	18 - 120
Nitrobenzene	1.00	0.660	66.0	21 - 121
N-Nitrosodimethylamine	1.00	ND	*	10 - 124
Phenanthrene	1.00	0.510	51.0	24 - 127
Pyrene	1.00	0.540	54.0	31 - 132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
23MW1	11/17/23 11:50	11/17/23 20:00	11/28/23 08:04	10.84	7.00	11/29/23 00:41	0.69	40.00	*
23MW2	11/17/23 13:55	11/17/23 20:00	11/28/23 08:04	10.76	7.00	11/29/23 01:12	0.71	40.00	*
23MW2	11/17/23 13:55	11/17/23 20:00	11/28/23 08:04	10.76	7.00	11/29/23 14:48	1.28	40.00	*
23MW3	11/17/23 14:30	11/17/23 20:00	11/28/23 08:04	10.73	7.00	11/29/23 01:43	0.74	40.00	*
23MW8	11/17/23 08:20	11/17/23 20:00	11/28/23 08:04	10.99	7.00	11/29/23 02:13	0.76	40.00	*
23MW9	11/17/23 09:45	11/17/23 20:00	11/28/23 08:04	10.93	7.00	11/29/23 02:44	0.78	40.00	*
23MW10	11/17/23 11:05	11/17/23 20:00	11/28/23 08:04	10.87	7.00	11/29/23 03:15	0.80	40.00	*

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D SIM

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Calibration:	SK30007	Instrument:	BNA#6
		Calibration Date:	11/01/23 01:52

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.367821	23.41744	11.76	1.297932E-02			20	*
Acenaphthylene	2.100674	25.24174	11.51	1.534567E-02			20	*
Anthracene	1.326779	23.51249	13.94625	3.785126E-02			20	*
Benzo(a)anthracene	1.611141	20.28602	17.63	1.533425E-02			20	*
Benzo(a)pyrene	1.193528	6.318884	19.48	2.106521E-02			20	
Benzo(b)fluoranthene	1.305352	15.44041	19.075	0.0243475			20	
Benzo(g,h,i)perylene	1.016454	4.671112	21.3325	2.315328E-02			20	
Benzo(k)fluoranthene	1.412087	18.10968	19.11	2.179094E-02			20	
Chrysene	1.535151	23.29417	17.68	2.207649E-02			20	*
Dibenzo(a,h)anthracene	0.8962201	7.162975	20.9725	2.224964E-02			20	
Fluoranthene	1.524523	24.79278	15.58	1.788808E-02			20	*
Fluorene	1.631602	24.47796	12.5	0			20	*
Indeno(1,2,3-cd)pyrene	1.117088	3.77446	20.94375	1.982213E-02			20	
Naphthalene	1.298955	24.59973	9.34	7.947905E-03			20	*
Phenanthrene	1.35992	25.74627	13.87	1.677279E-02			20	*
Pyrene	2.068563	24.00626	15.9075	2.940937E-02			20	*

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31716	Laboratory ID:	BK31716-BS1
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Biphenyl	25.0	16.3	65.0	33 - 95
1,2,4,5-Tetrachlorobenzene	25.0	17.7	70.6	26 - 120
1,2,4-Trichlorobenzene	25.0	19.0	76.0	20 - 118
1,2-Dichlorobenzene	25.0	14.7	59.0	29 - 111
1,2-Diphenylhydrazine (as Azobenzene)	25.0	15.1	60.3	16 - 141
1,3-Dichlorobenzene	25.0	14.3	57.3	23 - 117
1,4-Dichlorobenzene	25.0	14.7	58.9	30 - 105
2,3,4,6-Tetrachlorophenol	25.0	17.8	71.0	30 - 130
2,4,5-Trichlorophenol	25.0	20.3	81.3	32 - 114
2,4,6-Trichlorophenol	25.0	19.9	79.4	35 - 118
2,4-Dichlorophenol	25.0	19.6	78.4	25 - 116
2,4-Dimethylphenol	25.0	11.5	46.0	15 - 116
2,4-Dinitrophenol	25.0	37.2	149	10 - 170
2,4-Dinitrotoluene	25.0	24.3	97.2	41 - 128
2,6-Dinitrotoluene	25.0	23.3	93.2	45 - 116
2-Chloronaphthalene	25.0	15.3	61.2	33 - 112
2-Chlorophenol	25.0	13.6	54.2	15 - 120
2-Methylnaphthalene	25.0	17.3	69.1	24 - 118
2-Methylphenol	25.0	12.7	50.6	10 - 110
2-Nitroaniline	25.0	19.9	79.8	34 - 129
2-Nitrophenol	25.0	22.0	87.9	28 - 118
3- & 4-Methylphenols	25.0	10.4	41.6	10 - 107
3,3-Dichlorobenzidine	25.0	14.9	59.5	15 - 187
3-Nitroaniline	25.0	13.4	53.8	24 - 134
4,6-Dinitro-2-methylphenol	25.0	38.5	154 *	10 - 153
4-Bromophenyl phenyl ether	25.0	21.6	86.2	34 - 120
4-Chloro-3-methylphenol	25.0	20.4	81.4	20 - 120
4-Chloroaniline	25.0	8.93	35.7	10 - 147
4-Chlorophenyl phenyl ether	25.0	19.4	77.5	27 - 121
4-Nitroaniline	25.0	14.6	58.5	13 - 134

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31716	Laboratory ID:	BK31716-BS1
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Nitrophenol	25.0	10.6	42.4	10 - 131
Acetophenone	25.0	17.8	71.0	25 - 110
Aniline	25.0	4.29	17.2	10 - 117
Benzaldehyde	25.0	11.6	46.4	29 - 117
Benzoic acid	25.0	3.63	14.5 *	30 - 130
Benzyl alcohol	25.0	10.1	40.4	10 - 117
Benzyl butyl phthalate	25.0	12.8	51.1	29 - 133
Bis(2-chloroethoxy)methane	25.0	19.0	76.1	10 - 154
Bis(2-chloroethyl)ether	25.0	16.0	64.2	17 - 125
Bis(2-chloroisopropyl)ether	25.0	15.7	62.7	10 - 139
Caprolactam	25.0	2.85	11.4	10 - 137
Carbazole	25.0	16.1	64.5	42 - 126
Dibenzofuran	25.0	16.7	66.7	36 - 113
Diethyl phthalate	25.0	16.1	64.2	38 - 115
Dimethyl phthalate	25.0	17.1	68.5	38 - 129
Di-n-butyl phthalate	25.0	14.9	59.8	31 - 120
Di-n-octyl phthalate	25.0	13.3	53.1	21 - 149
Hexachlorocyclopentadiene	25.0	6.05	24.2	10 - 130
Isophorone	25.0	20.4	81.6	25 - 127
N-nitroso-di-n-propylamine	25.0	18.4	73.8	26 - 122
N-Nitrosodiphenylamine	25.0	17.9	71.5	23 - 149
Phenol	25.0	6.03	24.1	10 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx, NY

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
23MW1	11/17/23 11:50	11/17/23 20:00	11/28/23 08:04	10.84	7.00	11/29/23 10:53	1.12	40.00	*
23MW2	11/17/23 13:55	11/17/23 20:00	11/28/23 08:04	10.76	7.00	11/29/23 11:27	1.14	40.00	*
23MW2	11/17/23 13:55	11/17/23 20:00	11/28/23 08:04	10.76	7.00	11/30/23 03:17	1.80	40.00	*
23MW3	11/17/23 14:30	11/17/23 20:00	11/28/23 08:04	10.73	7.00	11/29/23 11:59	1.16	40.00	*
23MW8	11/17/23 08:20	11/17/23 20:00	11/28/23 08:04	10.99	7.00	11/29/23 12:34	1.19	40.00	*
23MW9	11/17/23 09:45	11/17/23 20:00	11/28/23 08:04	10.93	7.00	11/29/23 13:07	1.21	40.00	*
23MW10	11/17/23 11:05	11/17/23 20:00	11/28/23 08:04	10.87	7.00	11/29/23 13:40	1.23	40.00	*

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SH30037
Instrument: BNA #3
Calibration Date: 08/18/23 00:11

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.6420085	5.645666	7.373	4.820117E-03			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.552311	4.272736	7.100167	1.590421E-02			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.3115501	8.919748	6.350833	0.0182687			20	
1,2-Dichlorobenzene	1.555867	5.754626	5.624333	1.494484E-02			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.6742154	6.154303	8.865333	6.711838E-03			20	
1,3-Dichlorobenzene	1.60669	5.635009	5.468667	1.169269E-02			20	
1,4-Dichlorobenzene	1.63528	5.231847	5.518833	0.0157078			20	
1-Methylnaphthalene	0.6300568	8.876671	7.045833	1.690237E-02			20	
2,3,4,6-Tetrachlorophenol	0.1459256	1.119735	8.353167	1.854974E-03			SPCC (0.01)	
2,4,5-Trichlorophenol	0.4229839	2.975829	7.226667	1.902286E-02			SPCC (0.2)	
2,4,6-Trichlorophenol	0.3775387	2.769992	7.193667	6.287065E-03			SPCC (0.2)	
2,4-Dichlorophenol	0.2875347	7.48115	6.281667	1.396094E-02			SPCC (0.2)	
2,4-Dimethylphenol	0.3251158	11.43274	6.126167	1.141273E-02			SPCC (0.2)	
2,4-Dinitrophenol	0.1024993	18.16991	8.026667	3.693654E-02			SPCC (0.01)	
2,4-Dinitrotoluene	0.3450633	12.58674	8.180167	3.487875E-02			SPCC (0.2)	
2,6-Dinitrotoluene	0.2529816	10.8261	7.725667	2.333396E-02			SPCC (0.2)	
2-Chloronaphthalene	1.243563	5.957106	7.400833	2.299966E-02			SPCC (0.8)	
2-Chlorophenol	1.513372	4.619723	5.359167	0.0147808			SPCC (0.8)	
2-Methylnaphthalene	0.7116042	9.069534	6.9595	9.967313E-03			SPCC (0.4)	
2-Methylphenol	1.171854	5.266095	5.649667	1.567372E-02			SPCC (0.7)	
2-Nitroaniline	0.3513223	9.02393	7.486167	1.246932E-02			SPCC (0.01)	
2-Nitrophenol	0.1610806	2.011518	6.118833	1.766095E-02			SPCC (0.1)	
3- & 4-Methylphenols	1.754856	5.638185	5.751	2.961614E-02			SPCC (0.6)	
3,3-Dichlorobenzidine	0.5382795	6.751708	15.57067	1.815545E-02			SPCC (0.01)	
3-Nitroaniline	0.3234339	8.078126	7.912167	3.277666E-02			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	7.857175E-02	20.58287	8.699833	4.863588E-02			SPCC (0.01)	*
4-Bromophenyl phenyl ether	0.2039412	4.061074	9.355833	1.635335E-02			SPCC (0.1)	
4-Chloro-3-methylphenol	0.2894054	8.105583	6.797167	3.076966E-02			SPCC (0.2)	
4-Chloroaniline	0.4673214	9.261504	6.443167	1.241724E-02			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.7010067	4.843028	8.646334	8.578187E-03			SPCC (0.4)	
4-Nitroaniline	0.3631707	8.150017	8.659666	6.909368E-02			SPCC (0.01)	
4-Nitrophenol	0.2033529	5.501401	8.065	5.593137E-02			SPCC (0.01)	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Calibration: SH30037
Laboratory ID: S3H2131-SCV1
Sequence: S3H2131
Standard ID: S23F231

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	29.8	-0.6	30.00
1,2-Dichlorobenzene	30.0	28.7	-4.4	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	27.4	-8.8	30.00
1,3-Dichlorobenzene	30.0	28.7	-4.3	30.00
1,4-Dichlorobenzene	30.0	29.2	-2.6	30.00
2,3,4,6-Tetrachlorophenol	30.0	34.6	15.2	30.00
2,4,5-Trichlorophenol	30.0	29.8	-0.8	30.00
2,4,6-Trichlorophenol	30.0	29.7	-0.9	30.00
2,4-Dichlorophenol	30.0	30.2	0.7	30.00
2,4-Dimethylphenol	30.0	21.8	-27.3	30.00
2,4-Dinitrophenol	30.0	42.0	40.2 *	30.00
2,4-Dinitrotoluene	30.0	35.2	17.5	30.00
2,6-Dinitrotoluene	30.0	37.0	23.2	30.00
2-Chloronaphthalene	30.0	28.5	-4.9	30.00
2-Chlorophenol	30.0	29.4	-2.0	30.00
2-Methylnaphthalene	30.0	29.4	-1.8	30.00
2-Methylphenol	30.0	28.6	-4.8	30.00
2-Nitroaniline	30.0	33.3	11.1	30.00
2-Nitrophenol	30.0	34.2	14.1	30.00
3- & 4-Methylphenols	30.0	25.2	-15.9	30.00
3-Nitroaniline	30.0	33.8	12.7	30.00
4,6-Dinitro-2-methylphenol	30.0	40.6	35.3 *	30.00
4-Bromophenyl phenyl ether	30.0	27.8	-7.4	30.00
4-Chloro-3-methylphenol	30.0	30.3	0.9	30.00
4-Chloroaniline	30.0	29.0	-3.4	30.00
4-Chlorophenyl phenyl ether	30.0	28.0	-6.6	30.00
4-Nitroaniline	30.0	32.4	8.0	30.00

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #3	Calibration:	SH30037
Lab File ID:	SV3018789.D	Calibration Date:	08/18/23 00:11
Sequence:	S3K2941	Injection Date:	11/29/23
Lab Sample ID:	S3K2941-CCV1	Injection Time:	09:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	26.9	0.6420085	0.5753593	0.01	-10.4	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	32.8	0.552311	0.6048119	0.01	9.5	20	
1,2,4-Trichlorobenzene	A	30.0	33.0	0.3115501	0.3427426		10.0	20	
1,2-Dichlorobenzene	A	30.0	28.4	1.555867	1.473827		-5.3	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	24.2	0.6742154	0.5438922		-19.3	20	
1,3-Dichlorobenzene	A	30.0	28.0	1.60669	1.497511		-6.8	20	
1,4-Dichlorobenzene	A	30.0	28.5	1.63528	1.55208		-5.1	20	
2,3,4,6-Tetrachlorophenol	A	30.0	26.1	0.1459256	0.1221169	0.01	-16.3	20	
2,4,5-Trichlorophenol	A	30.0	32.6	0.4229839	0.4468776	0.2	5.6	20	
2,4,6-Trichlorophenol	A	30.0	32.2	0.3775387	0.3986243	0.2	5.6	20	
2,4-Dichlorophenol	A	30.0	30.7	0.2875347	0.2936913	0.2	2.1	20	
2,4-Dimethylphenol	A	30.0	23.0	0.3251158	0.2675897	0.2	-17.7	20	
2,4-Dinitrophenol	A	30.0	65.8	0.1024993	0.2039576	0.01	99.0	20	*
2,4-Dinitrotoluene	A	30.0	40.6	0.3450633	0.4672861	0.2	35.4	20	*
2,6-Dinitrotoluene	A	30.0	37.8	0.2529816	0.3186825	0.2	26.0	20	*
2-Chloronaphthalene	A	30.0	26.9	1.243563	1.116337	0.8	-10.2	20	
2-Chlorophenol	A	30.0	25.5	1.513372	1.279923	0.8	-15.4	20	
2-Methylnaphthalene	A	30.0	28.6	0.7116042	0.6787046	0.4	-4.6	20	
2-Methylphenol	A	30.0	27.9	1.171854	1.08975	0.7	-7.0	20	
2-Nitroaniline	A	30.0	32.2	0.3513223	0.3766995	0.01	7.2	20	
2-Nitrophenol	A	30.0	34.5	0.1610806	0.1774532	0.1	10.2	20	
3- & 4-Methylphenols	A	30.0	28.8	1.754856	1.685186	0.6	-4.0	20	
3,3-Dichlorobenzidine	A	30.0	30.3	0.5382795	0.5441184	0.01	1.1	20	
3-Nitroaniline	A	30.0	30.5	0.3234339	0.3285489	0.01	1.6	20	
4,6-Dinitro-2-methylphenol	A	30.0	63.0	7.857175E-02	0.1454508	0.01	85.1	20	*
4-Bromophenyl phenyl ether	A	30.0	36.1	0.2039412	0.2456981	0.1	20.5	20	*
4-Chloro-3-methylphenol	A	30.0	31.8	0.2894054	0.3093486	0.2	6.9	20	
4-Chloroaniline	A	30.0	25.2	0.4673214	0.3926246	0.01	-16.0	20	
4-Chlorophenyl phenyl ether	A	30.0	33.7	0.7010067	0.787488	0.4	12.3	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	BNA #3	Calibration:	SH30037
Lab File ID:	SV3018789.D	Calibration Date:	08/18/23 00:11
Sequence:	S3K2941	Injection Date:	11/29/23
Lab Sample ID:	S3K2941-CCV1	Injection Time:	09:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	28.0	0.3631707	0.3387805	0.01	-6.7	20	
4-Nitrophenol	A	30.0	39.8	0.2033529	0.2491333	0.01	22.5	20	*
Acetophenone	A	30.0	30.0	1.986704	1.9896	0.01	0.1	20	
Aniline	A	30.0	26.4	2.010659	1.765952		-12.2	20	
Benzaldehyde	A	30.0	27.4	1.133226	1.033109	0.01	-8.8	20	
Benzidine	A	30.0	32.3	0.6385551	0.6876162		7.7	20	
Benzoic acid	A	30.0	36.9	0.2293093	0.2818065		22.9	20	*
Benzyl alcohol	A	30.0	28.6	0.9779133	0.9340042		-4.5	20	
Benzyl butyl phthalate	A	30.0	20.4	0.6215221	0.4228549		-32.0	20	*
Bis(2-chloroethoxy)methane	A	30.0	29.3	0.3803269	0.3710198	0.3	-2.4	20	
Bis(2-chloroethyl)ether	A	30.0	28.4	1.367186	1.309818	0.7	-4.2	20	
Bis(2-chloroisopropyl)ether	A	30.0	25.9	1.350866	1.165891	0.01	-13.7	20	
Caprolactam	A	30.0	31.1	0.1178965	0.1223794	0.01	3.8	20	
Carbazole	A	30.0	26.3	1.132108	0.991828	0.01	-12.4	20	
Dibenzofuran	A	30.0	28.3	1.815558	1.714772	0.8	-5.6	20	
Diethyl phthalate	A	30.0	26.7	1.474667	1.311241	0.01	-11.1	20	
Dimethyl phthalate	A	30.0	28.0	1.448299	1.352228	0.01	-6.6	20	
Di-n-butyl phthalate	A	30.0	24.4	1.358114	1.103851	0.01	-18.7	20	
Di-n-octyl phthalate	A	30.0	21.9	1.511707	1.102283	0.01	-27.1	20	*
Hexachlorocyclopentadiene	A	30.0	31.5	0.3256597	0.3423002	0.05	5.1	20	
Isophorone	A	30.0	30.6	0.5832026	0.5954127	0.4	2.1	20	
N-nitroso-di-n-propylamine	A	30.0	32.5	0.9015895	0.9769014	0.5	8.4	20	
N-Nitrosodiphenylamine	A	30.0	26.0	0.2054732	0.1781389	0.01	-13.3	20	
Phenol	A	30.0	31.3	1.694666	1.769689	0.8	4.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019856.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2737	Injection Date:	11/22/23
Lab Sample ID:	S3K2737-CCV1	Injection Time:	09:25

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	52.6	9158312	8332000		5.3	20	
4,4'-DDE	A	50.0	47.6	1.338246E+07	1.0758E+07		-4.8	20	
4,4'-DDT	A	50.0	58.8	7707795	7842000		17.7	20	
Aldrin	A	50.0	52.2	1.322831E+07	1.2194E+07		4.4	20	
alpha-BHC	A	50.0	53.4	1.467668E+07	1.392E+07		6.8	20	
alpha-Chlordane	A	50.0	52.0	1.214063E+07	1.0584E+07		4.1	20	
beta-BHC	A	50.0	51.1	5943993	4902000		2.2	20	
delta-BHC	A	50.0	55.6	1.221956E+07	1.2186E+07		11.2	20	
Dieldrin	A	50.0	51.9	1.223139E+07	1.1066E+07		3.9	20	
Endosulfan I	A	50.0	52.1	1.068283E+07	9508000		4.3	20	
Endosulfan II	A	50.0	54.2	9217505	8544000		8.3	20	
Endosulfan sulfate	A	50.0	53.6	9052996	8114000		7.3	20	
Endrin	A	50.0	54.2	1.028641E+07	9758000		8.5	20	
Endrin aldehyde	A	50.0	51.7	7879151	6240000		3.4	20	
Endrin ketone	A	50.0	74.3	7194733	9204000		48.6	20	*
gamma-BHC (Lindane)	A	50.0	54.4	1.277498E+07	1.2152E+07		8.9	20	
gamma-Chlordane	A	50.0	52.8	1.17451E+07	1.0686E+07		5.7	20	
Heptachlor	A	50.0	58.3	1.077154E+07	1.0996E+07		16.6	20	
Heptachlor epoxide	A	50.0	52.4	1.141962E+07	1.0304E+07		4.8	20	
Methoxychlor	A	50.0	59.7	4344117	4186000		19.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019858.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2737	Injection Date:	11/22/23
Lab Sample ID:	S3K2737-CCV3	Injection Time:	10:01

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toxaphene	A	2000	2650	6322023	7576550		32.3	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019867.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2737	Injection Date:	11/22/23
Lab Sample ID:	S3K2737-CCV4	Injection Time:	19:03

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	59.2	9158312	9552000		18.4	20	
4,4'-DDE	A	50.0	47.6	1.338246E+07	1.0752E+07		-4.9	20	
4,4'-DDT	A	50.0	48.6	7707795	6262000		-2.7	20	
Aldrin	A	50.0	52.7	1.322831E+07	1.2328E+07		5.4	20	
alpha-BHC	A	50.0	54.5	1.467668E+07	1.424E+07		8.9	20	
alpha-Chlordane	A	50.0	52.7	1.214063E+07	1.0734E+07		5.4	20	
beta-BHC	A	50.0	52.0	5943993	5000000		3.9	20	
delta-BHC	A	50.0	56.6	1.221956E+07	1.2458E+07		13.3	20	
Dieldrin	A	50.0	53.0	1.223139E+07	1.132E+07		6.0	20	
Endosulfan I	A	50.0	53.1	1.068283E+07	9714000		6.2	20	
Endosulfan II	A	50.0	55.8	9217505	8852000		11.7	20	
Endosulfan sulfate	A	50.0	54.2	9052996	8214000		8.4	20	
Endrin	A	50.0	55.8	1.028641E+07	1.0078E+07		11.6	20	
Endrin aldehyde	A	50.0	53.4	7879151	6474000		6.8	20	
Endrin ketone	A	50.0	76.3	7194733	9526000		52.6	20	*
gamma-BHC (Lindane)	A	50.0	56.1	1.277498E+07	1.2592E+07		12.2	20	
gamma-Chlordane	A	50.0	54.0	1.17451E+07	1.0952E+07		7.9	20	
Heptachlor	A	50.0	58.4	1.077154E+07	1.1032E+07		16.9	20	
Heptachlor epoxide	A	50.0	53.3	1.141962E+07	1.0508E+07		6.6	20	
Methoxychlor	A	50.0	51.6	4344117	3552000		3.3	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	GC_5890_I	Calibration:	SK30006
Lab File ID:	P20514198.d	Calibration Date:	11/03/23 12:00
Sequence:	S3K2237	Injection Date:	11/22/23
Lab Sample ID:	S3K2237-CCV4	Injection Time:	02:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor 1016	A	1.00	1.29	1.263618E+08	1.455319E+08		29.4	20 *
Aroclor 1016 (1)	A	1.00	1.26	8.121978E+07	9.205942E+07		26.1	20 *
Aroclor 1016 (1) [2C]	A	1.00	1.23	1.050277E+08	1.148E+08		23.4	20 *
Aroclor 1016 (2)	A	1.00	1.23	1.857367E+08	2.06E+08		23.4	20 *
Aroclor 1016 (2) [2C]	A	1.00	1.25	1.612714E+08	1.789E+08		24.7	20 *
Aroclor 1016 (3)	A	1.00	1.49	1.454013E+08	1.868E+08		48.9	20 *
Aroclor 1016 (3) [2C]	A	1.00	1.32	1.92349E+08	2.278E+08		32.2	20 *
Aroclor 1016 (4)	A	1.00	1.24	9.168436E+07	1.007E+08		24.2	20 *
Aroclor 1016 (4) [2C]	A	1.00	1.30	1.181175E+08	1.353E+08		30.1	20 *
Aroclor 1016 (5)	A	1.00	1.24	1.277667E+08	1.421E+08		24.2	20 *
Aroclor 1016 (5) [2C]	A	1.00	1.32	1.567066E+08	1.882E+08		31.7	20 *
Aroclor 1016 [2C]	A	1.00	1.28	1.466944E+08	1.69E+08		28.4	20 *
Aroclor 1260	A	1.00	1.23	3.15488E+08	3.6174E+08		23.3	20 *
Aroclor 1260 (1)	A	1.00	1.26	2.249202E+08	2.555E+08		25.6	20 *
Aroclor 1260 (1) [2C]	A	1.00	1.38	2.809351E+08	3.531E+08		38.1	20 *
Aroclor 1260 (2)	A	1.00	1.26	3.428194E+08	4.046E+08		26.1	20 *
Aroclor 1260 (2) [2C]	A	1.00	1.44	3.365246E+08	4.371E+08		43.7	20 *
Aroclor 1260 (3)	A	1.00	1.24	2.931208E+08	3.372E+08		23.6	20 *
Aroclor 1260 (3) [2C]	A	1.00	1.44	3.240896E+08	4.223E+08		44.4	20 *
Aroclor 1260 (4)	A	1.00	1.22	2.125882E+08	2.344E+08		22.2	20 *
Aroclor 1260 (4) [2C]	A	1.00	1.37	2.772335E+08	3.286E+08		36.6	20 *
Aroclor 1260 (5)	A	1.00	1.19	5.03991E+08	5.77E+08		19.0	20
Aroclor 1260 (5) [2C]	A	1.00	1.44	6.029412E+08	8.1E+08		44.5	20 *
Aroclor 1260 [2C]	A	1.00	1.41	3.643448E+08	4.7022E+08		41.5	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Instrument ID:	GC_5890_I	Calibration:	SK30006
Lab File ID:	P20514210.d	Calibration Date:	11/03/23 12:00
Sequence:	S3K2237	Injection Date:	11/22/23
Lab Sample ID:	S3K2237-CCV5	Injection Time:	05:57

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Aroclor 1016	A	1.00	1.34	1.263618E+08	1.503156E+08		34.0	20 *
Aroclor 1016 (1)	A	1.00	1.30	8.121978E+07	9.477781E+07		30.1	20 *
Aroclor 1016 (1) [2C]	A	1.00	1.26	1.050277E+08	1.17E+08		26.0	20 *
Aroclor 1016 (2)	A	1.00	1.27	1.857367E+08	2.114E+08		26.8	20 *
Aroclor 1016 (2) [2C]	A	1.00	1.27	1.612714E+08	1.825E+08		27.4	20 *
Aroclor 1016 (3)	A	1.00	1.55	1.454013E+08	1.934E+08		54.7	20 *
Aroclor 1016 (3) [2C]	A	1.00	1.35	1.92349E+08	2.327E+08		35.2	20 *
Aroclor 1016 (4)	A	1.00	1.28	9.168436E+07	1.036E+08		28.1	20 *
Aroclor 1016 (4) [2C]	A	1.00	1.33	1.181175E+08	1.378E+08		32.8	20 *
Aroclor 1016 (5)	A	1.00	1.30	1.277667E+08	1.484E+08		30.1	20 *
Aroclor 1016 (5) [2C]	A	1.00	1.35	1.567066E+08	1.922E+08		34.7	20 *
Aroclor 1016 [2C]	A	1.00	1.31	1.466944E+08	1.7244E+08		31.2	20 *
Aroclor 1260	A	1.00	1.31	3.15488E+08	3.834E+08		30.9	20 *
Aroclor 1260 (1)	A	1.00	1.33	2.249202E+08	2.69E+08		32.8	20 *
Aroclor 1260 (1) [2C]	A	1.00	1.42	2.809351E+08	3.622E+08		41.9	20 *
Aroclor 1260 (2)	A	1.00	1.33	3.428194E+08	4.26E+08		33.3	20 *
Aroclor 1260 (2) [2C]	A	1.00	1.49	3.365246E+08	4.528E+08		49.4	20 *
Aroclor 1260 (3)	A	1.00	1.32	2.931208E+08	3.583E+08		31.8	20 *
Aroclor 1260 (3) [2C]	A	1.00	1.50	3.240896E+08	4.364E+08		49.6	20 *
Aroclor 1260 (4)	A	1.00	1.29	2.125882E+08	2.468E+08		29.2	20 *
Aroclor 1260 (4) [2C]	A	1.00	1.43	2.772335E+08	3.423E+08		42.8	20 *
Aroclor 1260 (5)	A	1.00	1.28	5.03991E+08	6.169E+08		27.6	20 *
Aroclor 1260 (5) [2C]	A	1.00	1.51	6.029412E+08	8.442E+08		50.9	20 *
Aroclor 1260 [2C]	A	1.00	1.47	3.643448E+08	4.8758E+08		46.9	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM I

BLANKS

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC

Instrument ID: Nexion2000C Project: 220293 100 E. 149th St. Bronx, NY

Sequence: S3K2906 Calibration: 11/28/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3K2906-ICB1	Antimony	0.049	1.00	ug/L		EPA 6020B
	Arsenic	-0.071	1.00	ug/L		EPA 6020B
	Beryllium	0.007	0.300	ug/L		EPA 6020B
	Cadmium	0.008	0.500	ug/L		EPA 6020B
	Selenium	-1.21	1.00	ug/L		EPA 6020B
	Thallium	0.006	1.00	ug/L		EPA 6020B
S3K2906-CCB1	Antimony	0.241	1.00	ug/L		EPA 6020B
	Arsenic	-0.031	1.00	ug/L		EPA 6020B
	Beryllium	0.010	0.300	ug/L		EPA 6020B
	Cadmium	0.001	0.500	ug/L		EPA 6020B
	Selenium	0.220	1.00	ug/L		EPA 6020B
	Thallium	-0.0004	1.00	ug/L		EPA 6020B
S3K2906-CCB2	Antimony	0.164	1.00	ug/L		EPA 6020B
	Arsenic	0.010	1.00	ug/L		EPA 6020B
	Beryllium	0.009	0.300	ug/L		EPA 6020B
	Cadmium	-0.001	0.500	ug/L		EPA 6020B
	Selenium	-0.275	1.00	ug/L		EPA 6020B
	Thallium	-0.004	1.00	ug/L		EPA 6020B
S3K2906-CCB3	Antimony	0.036	1.00	ug/L		EPA 6020B
	Arsenic	0.049	1.00	ug/L		EPA 6020B
	Beryllium	0.004	0.300	ug/L		EPA 6020B
	Cadmium	0.004	0.500	ug/L		EPA 6020B
	Selenium	-0.689	1.00	ug/L		EPA 6020B
	Thallium	0.008	1.00	ug/L		EPA 6020B
BK31728-BLK1	Antimony	-0.080	1.11	ug/L		EPA 6020B
	Arsenic	0.001	1.11	ug/L		EPA 6020B
	Beryllium	0.002	0.333	ug/L		EPA 6020B
	Cadmium	0.0003	0.556	ug/L		EPA 6020B
	Selenium	1.18	1.11	ug/L	*	EPA 6020B
	Thallium	-0.023	1.11	ug/L		EPA 6020B
S3K2906-CCB4	Antimony	0.018	1.00	ug/L		EPA 6020B
	Arsenic	0.002	1.00	ug/L		EPA 6020B
	Beryllium	0.004	0.300	ug/L		EPA 6020B

FORM I

BLANKS

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1273

Client: Touchstone Environmental Geology, PC

Instrument ID: Nexion2000C Project: 220293 100 E. 149th St. Bronx, NY

Sequence: S3K2908 Calibration: 11/28/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3K2908-ICB1	Antimony (dissolved)	0.049	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	-0.071	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.007	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.008	0.500	ug/L		EPA 6020B
	Selenium (dissolved)	-1.21	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	0.006	1.00	ug/L		EPA 6020B
S3K2908-CCB1	Antimony (dissolved)	0.241	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	-0.031	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.010	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.001	0.500	ug/L		EPA 6020B
	Selenium (dissolved)	0.220	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	-0.0004	1.00	ug/L		EPA 6020B
S3K2908-CCB2	Antimony (dissolved)	0.164	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	0.010	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.009	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	-0.001	0.500	ug/L		EPA 6020B
	Selenium (dissolved)	-0.275	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	-0.004	1.00	ug/L		EPA 6020B
S3K2908-CCB5	Antimony (dissolved)	0.002	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	0.044	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.004	0.300	ug/L		EPA 6020B
	Cadmium (dissolved)	0.005	0.500	ug/L		EPA 6020B
	Selenium (dissolved)	-0.946	1.00	ug/L		EPA 6020B
	Thallium (dissolved)	0.011	1.00	ug/L		EPA 6020B
BK31731-BLK1	Antimony (dissolved)	-0.041	1.11	ug/L		EPA 6020B
	Arsenic (dissolved)	0.089	1.11	ug/L		EPA 6020B
	Beryllium (dissolved)	-0.0006	0.333	ug/L		EPA 6020B
	Cadmium (dissolved)	-0.001	0.556	ug/L		EPA 6020B
	Selenium (dissolved)	1.42	1.11	ug/L	*	EPA 6020B
	Thallium (dissolved)	-0.027	1.11	ug/L		EPA 6020B
S3K2908-CCB6	Antimony (dissolved)	-0.015	1.00	ug/L		EPA 6020B
	Arsenic (dissolved)	0.029	1.00	ug/L		EPA 6020B
	Beryllium (dissolved)	0.003	0.300	ug/L		EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: Nexion2000C
Calibration: 11/28/23
Control Limt: +/- 10.00%
Sequence: S3K2906

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K2906-ICV1	Antimony	50.0	47.8	95.7		ug/L	EPA 6020B
	Arsenic	50.0	48.5	97.0		ug/L	EPA 6020B
	Beryllium	50.0	49.2	98.4		ug/L	EPA 6020B
	Cadmium	50.0	48.0	95.9		ug/L	EPA 6020B
	Selenium	50.0	51.3	103		ug/L	EPA 6020B
	Thallium	50.0	49.1	98.2		ug/L	EPA 6020B
S3K2906-CCV1	Antimony	50.0	50.7	101		ug/L	EPA 6020B
	Arsenic	50.0	51.0	102		ug/L	EPA 6020B
	Beryllium	50.0	50.5	101		ug/L	EPA 6020B
	Cadmium	50.0	50.8	102		ug/L	EPA 6020B
	Selenium	50.0	49.5	99.0		ug/L	EPA 6020B
	Thallium	50.0	51.3	103		ug/L	EPA 6020B
S3K2906-CCV2	Antimony	50.0	49.8	99.5		ug/L	EPA 6020B
	Arsenic	50.0	50.1	100		ug/L	EPA 6020B
	Beryllium	50.0	51.6	103		ug/L	EPA 6020B
	Cadmium	50.0	49.3	98.6		ug/L	EPA 6020B
	Selenium	50.0	44.5	88.9	*	ug/L	EPA 6020B
	Thallium	50.0	49.7	99.5		ug/L	EPA 6020B
S3K2906-CCV3	Antimony	50.0	46.5	93.0		ug/L	EPA 6020B
	Arsenic	50.0	50.7	101		ug/L	EPA 6020B
	Beryllium	50.0	42.9	85.8	*	ug/L	EPA 6020B
	Cadmium	50.0	49.3	98.6		ug/L	EPA 6020B
	Selenium	50.0	50.2	100		ug/L	EPA 6020B
	Thallium	50.0	55.9	112	*	ug/L	EPA 6020B
S3K2906-CCV4	Antimony	50.0	45.8	91.6		ug/L	EPA 6020B
	Arsenic	50.0	50.4	101		ug/L	EPA 6020B
	Beryllium	50.0	41.7	83.4	*	ug/L	EPA 6020B
	Cadmium	50.0	47.8	95.6		ug/L	EPA 6020B
	Selenium	50.0	50.0	100		ug/L	EPA 6020B
	Thallium	50.0	57.3	115	*	ug/L	EPA 6020B
S3K2906-CCV5	Antimony	50.0	44.0	88.1	*	ug/L	EPA 6020B
	Arsenic	50.0	51.1	102		ug/L	EPA 6020B
	Beryllium	50.0	39.4	78.8	*	ug/L	EPA 6020B
	Cadmium	50.0	45.2	90.4		ug/L	EPA 6020B
	Selenium	50.0	50.4	101		ug/L	EPA 6020B
	Thallium	50.0	58.0	116	*	ug/L	EPA 6020B
S3K2906-CCV6	Antimony	50.0	42.9	85.7	*	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: Nexion2000C
Calibration: 11/28/23
Control Limt: +/- 10.00%
Sequence: S3K2908

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K2908-ICV1	Antimony (dissolved)	50.0	47.8	95.7		ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	48.5	97.0		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	49.2	98.4		ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	48.0	95.9		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	51.3	103		ug/L	EPA 6020B
	Thallium (dissolved)	50.0	49.1	98.2		ug/L	EPA 6020B
S3K2908-CCV1	Antimony (dissolved)	50.0	50.7	101		ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	51.0	102		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	50.5	101		ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	50.8	102		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	49.5	99.0		ug/L	EPA 6020B
	Thallium (dissolved)	50.0	51.3	103		ug/L	EPA 6020B
S3K2908-CCV2	Antimony (dissolved)	50.0	49.8	99.5		ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	50.1	100		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	51.6	103		ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	49.3	98.6		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	44.5	88.9	*	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	49.7	99.5		ug/L	EPA 6020B
S3K2908-CCV5	Antimony (dissolved)	50.0	44.0	88.1	*	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	51.1	102		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	39.4	78.8	*	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	45.2	90.4		ug/L	EPA 6020B
	Selenium (dissolved)	50.0	50.4	101		ug/L	EPA 6020B
	Thallium (dissolved)	50.0	58.0	116	*	ug/L	EPA 6020B
S3K2908-CCV6	Antimony (dissolved)	50.0	42.9	85.7	*	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	51.5	103		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	39.6	79.1	*	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	44.0	88.1	*	ug/L	EPA 6020B
	Selenium (dissolved)	50.0	46.9	93.8		ug/L	EPA 6020B
	Thallium (dissolved)	50.0	57.1	114	*	ug/L	EPA 6020B
S3K2908-CCV7	Antimony (dissolved)	50.0	43.3	86.6	*	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	51.2	102		ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	38.3	76.6	*	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	44.8	89.7	*	ug/L	EPA 6020B
	Selenium (dissolved)	50.0	56.8	114	*	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	56.7	113	*	ug/L	EPA 6020B

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: Nexion2000C
Calibration: 11/28/23
Sequence: S3K2906

Lab Sample ID	Analyte	True	Found	%R	Units
S3K2906-IFA1	Antimony		0.75		ug/L
	Arsenic		-0.07		ug/L
	Beryllium		0.00		ug/L
	Cadmium		0.23		ug/L
	Selenium		-1.06		ug/L
	Thallium		-0.02		ug/L
S3K2906-IFB1	Antimony	20.0	20.98	105	ug/L
	Arsenic	20.0	20.48	102	ug/L
	Beryllium	20.0	19.66	98.3	ug/L
	Cadmium	20.0	20.41	102	ug/L
	Selenium	20.0	24.88	124 *	ug/L
	Thallium	20.0	19.49	97.4	ug/L

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: Nexion2000C
Calibration: 11/28/23
Sequence: S3K2908

Lab Sample ID	Analyte	True	Found	%R	Units
S3K2908-IFA1	Antimony (dissolved)		0.75		ug/L
	Arsenic (dissolved)		-0.07		ug/L
	Beryllium (dissolved)		0.00		ug/L
	Cadmium (dissolved)		0.23		ug/L
	Selenium (dissolved)		-1.06		ug/L
	Thallium (dissolved)		-0.02		ug/L
S3K2908-IFB1	Antimony (dissolved)	20.0	20.98	105	ug/L
	Arsenic (dissolved)	20.0	20.48	102	ug/L
	Beryllium (dissolved)	20.0	19.66	98.3	ug/L
	Cadmium (dissolved)	20.0	20.41	102	ug/L
	Selenium (dissolved)	20.0	24.88	124 *	ug/L
	Thallium (dissolved)	20.0	19.49	97.4	ug/L

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31725	Laboratory ID:	BK31725-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Aluminum	2.00	1.88	94.1	80 - 120
Barium	2.00	2.01	101	80 - 120
Calcium	1.00	1.09	109	80 - 120
Chromium	0.200	0.200	100	80 - 120
Cobalt	0.500	0.492	98.3	80 - 120
Copper	0.250	0.264	106	80 - 120
Iron	1.00	1.04	104	80 - 120
Lead	0.500	0.496	99.2	80 - 120
Magnesium	1.00	0.968	96.8	80 - 120
Manganese	0.500	0.507	101	80 - 120
Nickel	0.500	0.500	100	80 - 120
Potassium	1.00	0.985	98.5	80 - 120
Silver	0.0500	0.0477	95.3	80 - 120
Sodium	1.00	3.04	304 *	80 - 120
Vanadium	0.500	0.484	96.7	80 - 120
Zinc	0.500	0.500	99.9	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31730	Laboratory ID:	BK31730-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Aluminum (dissolved)	2.00	1.78	89.0	80 - 120
Barium (dissolved)	2.00	1.91	95.7	80 - 120
Calcium (dissolved)	1.00	0.964	96.4	80 - 120
Chromium (dissolved)	0.200	0.194	96.8	80 - 120
Cobalt (dissolved)	0.500	0.468	93.7	80 - 120
Copper (dissolved)	0.250	0.253	101	80 - 120
Iron (dissolved)	1.00	0.928	92.8	80 - 120
Lead (dissolved)	0.500	0.466	93.2	80 - 120
Magnesium (dissolved)	1.00	0.913	91.3	80 - 120
Manganese (dissolved)	0.500	0.483	96.7	80 - 120
Nickel (dissolved)	0.500	0.483	96.6	80 - 120
Potassium (dissolved)	1.00	0.834	83.4	80 - 120
Silver (dissolved)	0.0500	0.0451	90.2	80 - 120
Sodium (dissolved)	1.00	2.95	295 *	80 - 120
Vanadium (dissolved)	0.500	0.464	92.8	80 - 120
Zinc (dissolved)	0.500	0.483	96.7	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Instrument ID: AvioICP
Project: 220293 100 E. 149th St. Bronx, NY
Sequence: S3K2949
Calibration: 11/29/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3K2949-CCBB	Barium	-0.000759	0.0250	ug/mL		EPA 6010D
	Calcium	0.000951	0.0500	ug/mL		EPA 6010D
	Chromium	0.000747	0.00500	ug/mL		EPA 6010D
	Cobalt	-0.00132	0.00400	ug/mL		EPA 6010D
	Copper	0.000552	0.0200	ug/mL		EPA 6010D
	Iron	0.00230	0.250	ug/mL		EPA 6010D
	Lead	0.00441	0.00500	ug/mL		EPA 6010D
	Magnesium	0.0000330	0.0500	ug/mL		EPA 6010D
	Manganese	-0.000134	0.00500	ug/mL		EPA 6010D
	Nickel	0.00140	0.0100	ug/mL		EPA 6010D
	Potassium	-0.00169	0.0500	ug/mL		EPA 6010D
	Silver	0.000418	0.00500	ug/mL		EPA 6010D
	Sodium	0.133	0.500	ug/mL		EPA 6010D
	Vanadium	0.000628	0.0100	ug/mL		EPA 6010D
	Zinc	0.000722	0.0250	ug/mL		EPA 6010D
BK31725-BLK1	Aluminum	0.00779	0.0556	mg/L		EPA 6010D
	Barium	-0.000653	0.0278	mg/L		EPA 6010D
	Calcium	0.227	0.0556	mg/L	*	EPA 6010D
	Chromium	0.00424	0.00556	mg/L		EPA 6010D
	Cobalt	-0.00122	0.00444	mg/L		EPA 6010D
	Copper	0.00107	0.0222	mg/L		EPA 6010D
	Iron	0.0204	0.278	mg/L		EPA 6010D
	Lead	0.00418	0.00556	mg/L		EPA 6010D
	Magnesium	0.0136	0.0556	mg/L		EPA 6010D
	Manganese	0.000191	0.00556	mg/L		EPA 6010D
	Nickel	0.00128	0.0111	mg/L		EPA 6010D
	Potassium	0.00736	0.0556	mg/L		EPA 6010D
	Silver	0.000243	0.00556	mg/L		EPA 6010D
	Sodium	0.570	0.556	mg/L	*	EPA 6010D
	Vanadium	0.000407	0.0111	mg/L		EPA 6010D
	Zinc	0.00962	0.0278	mg/L		EPA 6010D
S3K2949-CCBC	Aluminum	0.00155	0.0500	ug/mL		EPA 6010D
	Barium	-0.000263	0.0250	ug/mL		EPA 6010D

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/28/23
Sequence: S3K2910

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S3K2910-CRL1	Aluminum (dissolved)	0.500	0.493	98.6	ug/mL	70 - 130
	Barium (dissolved)	0.0250	0.0264	105	ug/mL	70 - 130
	Calcium (dissolved)	0.500	0.511	102	ug/mL	70 - 130
	Chromium (dissolved)	0.00500	0.00535	107	ug/mL	70 - 130
	Cobalt (dissolved)	0.00400	0.00395	98.7	ug/mL	70 - 130
	Copper (dissolved)	0.0400	0.0390	97.5	ug/mL	70 - 130
	Iron (dissolved)	0.500	0.499	99.9	ug/mL	70 - 130
	Lead (dissolved)	0.00500	0.00374	74.8	ug/mL	70 - 130
	Magnesium (dissolved)	0.500	0.491	98.2	ug/mL	70 - 130
	Manganese (dissolved)	0.0100	0.0103	103	ug/mL	70 - 130
	Nickel (dissolved)	0.0100	0.0108	108	ug/mL	70 - 130
	Potassium (dissolved)	0.500	0.509	102	ug/mL	70 - 130
	Silver (dissolved)	0.0100	0.00834	83.4	ug/mL	70 - 130
	Sodium (dissolved)	0.500	0.578	116	ug/mL	70 - 130
	Vanadium (dissolved)	0.0100	0.0100	100	ug/mL	70 - 130
	Zinc (dissolved)	0.0250	0.0116	46.4 *	ug/mL	70 - 130

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/29/23
Sequence: S3K2949

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S3K2949-CRL1	Aluminum	0.500	0.499	99.7	ug/mL	70 - 130
	Barium	0.0250	0.0276	110	ug/mL	70 - 130
	Calcium	0.500	0.527	105	ug/mL	70 - 130
	Chromium	0.00500	0.00540	108	ug/mL	70 - 130
	Cobalt	0.00400	0.00384	95.9	ug/mL	70 - 130
	Copper	0.0400	0.0418	104	ug/mL	70 - 130
	Iron	0.500	0.503	101	ug/mL	70 - 130
	Lead	0.00500	0.00560	112	ug/mL	70 - 130
	Magnesium	0.500	0.501	100	ug/mL	70 - 130
	Manganese	0.0100	0.0110	110	ug/mL	70 - 130
	Nickel	0.0100	0.0114	114	ug/mL	70 - 130
	Potassium	0.500	0.488	97.6	ug/mL	70 - 130
	Silver	0.0100	0.0102	102	ug/mL	70 - 130
	Sodium	0.500	0.482	96.4	ug/mL	70 - 130
	Vanadium	0.0100	0.0105	105	ug/mL	70 - 130
	Zinc	0.0250	0.0125	49.8 *	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1273
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx, NY
Instrument ID: AvioICP
Calibration: 11/29/23
Sequence: S3K2949

Lab Sample ID	Analyte	True	Found	%R	Units
S3K2949-IFB1	Sodium		3.59		ug/mL
	Vanadium	0.500	0.48	96.6	ug/mL
	Zinc	1.00	1.21	121 *	ug/mL

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 7196A

23MW10

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31201	Laboratory ID:	BK31201-MS1
Preparation:	Analysis Preparation	Initial/Final:	100 mL / 100 mL

Source Sample Name: 23MW10

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #		QC LIMITS REC.
Chromium, Hexavalent	0.500	ND	0.250	50.0	*	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 7196A

23MW10

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1273
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx, NY
Matrix:	Water		
Batch:	BK31201	Laboratory ID:	BK31201-MSD1
Preparation:	Analysis Preparation	Initial/Final:	100 mL / 100 mL

Source Sample Name: 23MW10

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chromium, Hexavalent	0.500	0.243	48.6	*	2.84	200	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: 23K1442
4 Water Samples, 1 Trip Blank, and 1 Field Blank

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability 10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K1442 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K1442, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/8/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 21, 2023
SAMPLE TYPE:	4 water samples, 1 trip blank and 1 field blank
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K1442

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 4 water samples, 1 trip blank, and 1 field blank collected on November 21, 2023. These samples were analyzed for Volatile Organic Compounds (VOCs), Semi-volatile Organic Compounds (SVOCs), SVOCs-SIM, 1,4-Dioxane, Pesticides, PCBs, Metals (total and dissolved), Hexavalnet Chromium (Cr+6), and Total Cyanide (TCN).

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K1442. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Tables 6-1 through 6-10. The tables list the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K1442, six samples were analyzed and results were reported for 1004 analytes. Twelve results were rejected. Even though some results were flagged with a "J" as estimated, all other results (98.8 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Note; 1) Due to a laboratory error, Pentachlorophenol has not been reported by either SVOC method, 8170D-Scan or 8270D-SIM. No data validation criteria have been violated, but if this is a compound of interest, the laboratory should be contacted.

Table 6-1 VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	1,4-Dioxane	J detects R non-detects	ICAL RF < 0.005	Since all results are non-detect, the results are rejected
23MW4 23MW5 23MW7	DBCP 2-Butanone 2-Hexanone 4-Methyl-2-pentanone Bromoform	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated
23MW6 Trip Blank Field Blank	2-Butanone 2-Hexanone Bromoform	J detects UJ non-detects	ICAL RF and/or CCV RF <0.1	Data are estimated
23MW4 23MW5 23MW7	Acetone Acrolein Bromomethane TBA Tetrachloroethene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated
23MW6 Trip Blank Field Blank	Freon 113 1,1-Dichloroethene Acetone Acrylonitrile Bromomethane Carbon disulfide Chloromethane Dichlorodifluoromethane Hexachlorobutadiene Methylene chloride	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits and/or LCS rec < QC limits	Data are estimated

	Tetrachloroethene Trichlorofluoromethane			
23MW6	n-Butylbenzene	NJ detects	Relative intensity < 70%	Data are tentitvely identified and estimated

Table 6-2 SVOCs - Scan

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW4 23MW5	Hexachloropentadiene	J detects R non-detects	LCS rec < 0 %	Since all results are non-detect, the results are rejected
23MW4 23MW5 23MW6 23MW7	2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Nitroaniline 4,6-Dinitro-2-methylphenol Bis(2-chloroisopropyl)ether Benzoic acid Di-n-octyl phthalate	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated
23MW6 23MW7	Hexachloropentadiene	J detects UJ non-detects	ICV % D and/or CCV % D > QC limits	Data are estimated

Table 6-3 SVOCs - SIM

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	N-Nitrosodimethylamine	J detects R non-detects	LCS rec< 0%	Since all results are non-detect, the results are rejected
23MW5	Anthracene Naphthalene Phenanthrene	J detects	LCS rec > QC limits	Data are estimated
23MW4 23MW5 23MW6 23MW7	Hexachlorobenzene Hexachloroethane	J detects UJ non-detects	ICAL % RSD > and/or ICV % D > QC limits	Data are estimated
23MW4	Benzo(g,h,i)perylene Bis(2ethylhexyl)phthalate Dibenzo(a,h)anthracene Indeno(1,2,3-cd)pyrene	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-4 1,4-Dioxane

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-5 Pesticides

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW4 23MW5 23MW6 23MW7	4,4'-DDT Endrin ketone Methoxychlor	J detects UJ non-detects	CCV % D > QC limit	Data are estimated

Table 6-6 PCBs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-7 ICP/MS Metals (total and dissolved)

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW7	As	J detects	Serial dilution > 10 %	Data are estimated
23MW4	Sb, Be, and Cd	J- detects UJ non-detects	CCV % D < 90 %	Data are biased low
23MW4	Se	J detects	Analyte detected in method blank and Interference check > QC limits	Data are estimated

Table 6-8 ICP Metals (total and dissolved)

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW4 23MW5 23MW6 23MW7	Na and Na (dissolved)	J+ detects	LCS rec > QC limit	Data are biased high
23MW5	Al, Ca, Fe, Pb, Mg, and Na	J detects	Serial dilution > 10 %	Data are estimated
23MW7	Al (dissolved)	J detects	Serial dilution > 10 % and Dup RPD > 20%	Data are estimated
23MW4 23MW5 23MW6 23MW7	Zn and Zn (dissolved)	J detects UJ non-detects	CRDL Std < QC limits and Interference check > QC limits	Data are estimated
23MW4 23MW5 23MW6 23MW7	Ba and Ba (dissolved)	J+ detects	Interference check > QC limits	Data are estimated
23MW4 23MW5 23MW6 23MW7	Pb and Pb (dissolved)	J detects	Analyte detected in method blank	Data are estimated

Table 6-9 Mercury (total and dissolved)

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
none			none	

Table 6-10 Cr+6 and TCN

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23MW7	TCN	J- detects UJ non-detects	MS/MSD rec < QC limit	Data are biased low

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/28/2023
Client Project ID: 220293 100 E. 149th St. Bronx NY
York Project (SDG) No.: 23K1442

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Work Order Narrative

York Analytical Work Order No.: 23K1442

Client : Touchstone Environmental Geology, PC

Client Project ID : 220293 100 E. 149th St. Bronx NY

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/21/2023 8:50 PM

6 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{1.7}°C**

6 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was unacceptable (> 6 °C)
and documented as: **{14.2}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23MW4	23K1442-01	Water	11/21/2023 9:50 AM	11/21/2023 8:50 PM
23MW5	23K1442-02	Water	11/21/2023 10:45 AM	11/21/2023 8:50 PM
23MW6	23K1442-03	Water	11/21/2023 11:50 AM	11/21/2023 8:50 PM
23MW7	23K1442-04	Water	11/21/2023 12:50 PM	11/21/2023 8:50 PM
Field Blank	23K1442-05	Water	11/21/2023 3:00 PM	11/21/2023 8:50 PM
Trip Blank	23K1442-06	Water	11/21/2023 3:00 PM	11/21/2023 8:50 PM

WorkOrder Comments

2.0 Methodology

Analysis Class	Preparation Method	Analysis Methodology
VOA	EPA 5030B	EPA 8260D
SVOA	EPA 3510C	EPA 8270D
SVOA	EPA 3510C	EPA 8270D SIM
SVOA	EPA 3535A	EPA 8270D SIM
SVOA	EPA 3550C	EPA 8270D SIM
PEST	EPA 3550C	EPA 8081B
PEST	EPA SW846-3510C Low Level	EPA 8081B
ARO	EPA 3550C	EPA 8082A
ARO	EPA SW846-3510C Low Level	EPA 8082A
METALS	EPA 3015A	EPA 6010D
METALS	EPA 3015A	EPA 6020B
HG	EPA SW846-7470A	EPA 7470
WET	Analysis Preparation	Calculation
WET	Analysis Preparation	EPA 7196A
WET	Analysis Preparation	SM 4500 CN C-2016 / E-20

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.: 23K1442

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone:	Phone:	Phone:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th St. Bronx, NY

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Firat Atamer

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ⋮ Other

Samples From

New York	✓
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
		Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
23MW4	GW	11/21/23 9:50	TCL+10 VOCs and TICs, TCL+20 SVOCs and TICs, Pesticide/PCBs via EPA Method 8081/8082, 21PFAS compounds via EPA Method 8270 SIM, TAL Metals (filtered and unfiltered) + Cyanide and Hexavalent Chromium 1633, 1,4-dioxane via EPA Method 8270 SIM, TAL Metals (filtered and unfiltered) + Cyanide and Hexavalent Chromium	4 Ambers 4 plastic 3 vials ↓
23MW5	↓	10:45		
23MW6		11:50		
23MW7		12:50		
Trip Blank, Field Blank	O			5 vials.

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
14:28	11/21/23	1428 11/21/23	On ICE 14.2		11/21/23 1850
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Roman Kwok	11/21/23 1850	Roman Kwok	11/21/23 20:50		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				11/21/23 20:50	1.7 Degrees C

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: VOA

METHOD: EPA 8260D

DATA PACKAGE COVER PAGE

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04
23MW7	23K1442-04RE1
Field Blank	23K1442-05
Trip Blank	23K1442-06

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/19/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: V10C021856.D

Sampled: 11/21/23 09:50 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 16:29

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	10	5.0	U	
71-55-6	1,1,1-Trichloroethane	10	5.0	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	5.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10	5.0	U	
79-00-5	1,1,2-Trichloroethane	10	5.0	U	
75-34-3	1,1-Dichloroethane	10	5.0	U	
75-35-4	1,1-Dichloroethylene	10	5.0	U	
87-61-6	1,2,3-Trichlorobenzene	10	5.0	U	
96-18-4	1,2,3-Trichloropropane	10	5.0	U	
120-82-1	1,2,4-Trichlorobenzene	10	5.0	U	
95-63-6	1,2,4-Trimethylbenzene	10	62	D	
96-12-8	1,2-Dibromo-3-chloropropane	10	5.0	U	UJ
106-93-4	1,2-Dibromoethane	10	5.0	U	
95-50-1	1,2-Dichlorobenzene	10	5.0	U	
107-06-2	1,2-Dichloroethane	10	5.0	U	
78-87-5	1,2-Dichloropropane	10	5.0	U	
108-67-8	1,3,5-Trimethylbenzene	10	38	D	
541-73-1	1,3-Dichlorobenzene	10	5.0	U	
106-46-7	1,4-Dichlorobenzene	10	5.0	U	
123-91-1	1,4-Dioxane	10	~~400~~	U	R
78-93-3	2-Butanone	10	5.0	U	UJ
591-78-6	2-Hexanone	10	5.0	U	UJ
108-10-1	4-Methyl-2-pentanone	10	5.0	U	UJ
67-64-1	Acetone	10	38	D	J
107-02-8	Acrolein	10	5.0	U	UJ
107-13-1	Acrylonitrile	10	5.0	U	
71-43-2	Benzene	10	74	D	
74-97-5	Bromochloromethane	10	5.0	U	
75-27-4	Bromodichloromethane	10	5.0	U	
75-25-2	Bromoform	10	5.0	U	UJ
74-83-9	Bromomethane	10	5.0	U	UJ
75-15-0	Carbon disulfide	10	5.0	U	
56-23-5	Carbon tetrachloride	10	5.0	U	
108-90-7	Chlorobenzene	10	5.0	U	
75-00-3	Chloroethane	10	5.0	U	
67-66-3	Chloroform	10	5.0	U	
74-87-3	Chloromethane	10	5.0	U	
156-59-2	cis-1,2-Dichloroethylene	10	5.0	U	
10061-01-5	cis-1,3-Dichloropropylene	10	5.0	U	
110-82-7	Cyclohexane	10	160	D	

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: V10C021856.D

Sampled: 11/21/23 09:50 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 16:29

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	10	5.0	U	
74-95-3	Dibromomethane	10	5.0	U	
75-71-8	Dichlorodifluoromethane	10	5.0	U	
100-41-4	Ethyl Benzene	10	65	D	
87-68-3	Hexachlorobutadiene	10	5.0	U	
98-82-8	Isopropylbenzene	10	17	D	
79-20-9	Methyl acetate	10	5.0	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	10	5.0	U	
108-87-2	Methylcyclohexane	10	150	D	
75-09-2	Methylene chloride	10	20	U	
104-51-8	n-Butylbenzene	10	4.8	JD	
103-65-1	n-Propylbenzene	10	37	D	
95-47-6	o-Xylene	10	11	D	
179601-23-1	p- & m- Xylenes	10	78	D	
99-87-6	p-Isopropyltoluene	10	2.7	JD	
135-98-8	sec-Butylbenzene	10	4.1	JD	
100-42-5	Styrene	10	5.0	U	
75-65-0	tert-Butyl alcohol (TBA)	10	10	U	UJ
98-06-6	tert-Butylbenzene	10	5.0	U	
127-18-4	Tetrachloroethylene	10	5.0	U	
108-88-3	Toluene	10	12	D	
156-60-5	trans-1,2-Dichloroethylene	10	5.0	U	
10061-02-6	trans-1,3-Dichloropropylene	10	5.0	U	
110-57-6	trans-1,4-dichloro-2-butene	10	5.0	U	
79-01-6	Trichloroethylene	10	5.0	U	UJ
75-69-4	Trichlorofluoromethane	10	5.0	U	
75-01-4	Vinyl Chloride	10	5.0	U	
1330-20-7	Xylenes, Total	10	89	D	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.81	98.1	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	474406	6.447	449729	6.447	
ISTD: Chlorobenzene-d5	1572068	9.508	1638013	9.511	
ISTD: 1,2-Dichlorobenzene-d4	557304	12.527	611954	12.527	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: V10C021857.D

Sampled: 11/21/23 10:45 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 16:56

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	5	2.5	U	
71-55-6	1,1,1-Trichloroethane	5	2.5	U	
79-34-5	1,1,2,2-Tetrachloroethane	5	2.5	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	2.5	U	
79-00-5	1,1,2-Trichloroethane	5	2.5	U	
75-34-3	1,1-Dichloroethane	5	2.5	U	
75-35-4	1,1-Dichloroethylene	5	2.5	U	
87-61-6	1,2,3-Trichlorobenzene	5	2.5	U	
96-18-4	1,2,3-Trichloropropane	5	2.5	U	
120-82-1	1,2,4-Trichlorobenzene	5	2.5	U	
95-63-6	1,2,4-Trimethylbenzene	5	63	D	
96-12-8	1,2-Dibromo-3-chloropropane	5	2.5	U	UJ
106-93-4	1,2-Dibromoethane	5	2.5	U	
95-50-1	1,2-Dichlorobenzene	5	2.5	U	
107-06-2	1,2-Dichloroethane	5	2.5	U	
78-87-5	1,2-Dichloropropane	5	2.5	U	
108-67-8	1,3,5-Trimethylbenzene	5	43	D	
541-73-1	1,3-Dichlorobenzene	5	2.5	U	
106-46-7	1,4-Dichlorobenzene	5	2.5	U	
123-91-1	1,4-Dioxane	5	200	U	R
78-93-3	2-Butanone	5	2.5	U	UJ
591-78-6	2-Hexanone	5	2.5	U	UJ
108-10-1	4-Methyl-2-pentanone	5	2.5	U	UJ
67-64-1	Acetone	5	10	U	UJ
107-02-8	Acrolein	5	2.5	U	UJ
107-13-1	Acrylonitrile	5	2.5	U	
71-43-2	Benzene	5	64	D	
74-97-5	Bromochloromethane	5	2.5	U	
75-27-4	Bromodichloromethane	5	2.5	U	
75-25-2	Bromoform	5	2.5	U	UJ
74-83-9	Bromomethane	5	2.5	U	UJ
75-15-0	Carbon disulfide	5	2.5	U	
56-23-5	Carbon tetrachloride	5	2.5	U	
108-90-7	Chlorobenzene	5	2.5	U	
75-00-3	Chloroethane	5	2.5	U	
67-66-3	Chloroform	5	2.5	U	
74-87-3	Chloromethane	5	2.5	U	
156-59-2	cis-1,2-Dichloroethylene	5	2.5	U	
10061-01-5	cis-1,3-Dichloropropylene	5	2.5	U	
110-82-7	Cyclohexane	5	210	D	

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: V10C021857.D

Sampled: 11/21/23 10:45 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 16:56

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	5	2.5	U	
74-95-3	Dibromomethane	5	2.5	U	
75-71-8	Dichlorodifluoromethane	5	2.5	U	
100-41-4	Ethyl Benzene	5	61	D	
87-68-3	Hexachlorobutadiene	5	2.5	U	
98-82-8	Isopropylbenzene	5	33	D	
79-20-9	Methyl acetate	5	2.5	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	5	2.5	U	
108-87-2	Methylcyclohexane	5	280	D	
75-09-2	Methylene chloride	5	10	U	
104-51-8	n-Butylbenzene	5	9.8	D	
103-65-1	n-Propylbenzene	5	82	D	
95-47-6	o-Xylene	5	15	D	
179601-23-1	p- & m- Xylenes	5	40	D	
99-87-6	p-Isopropyltoluene	5	7.8	D	
135-98-8	sec-Butylbenzene	5	5.9	D	
100-42-5	Styrene	5	2.5	U	
75-65-0	tert-Butyl alcohol (TBA)	5	5.0	U	UJ
98-06-6	tert-Butylbenzene	5	2.5	U	
127-18-4	Tetrachloroethylene	5	2.5	U	UJ
108-88-3	Toluene	5	16	D	
156-60-5	trans-1,2-Dichloroethylene	5	2.5	U	
10061-02-6	trans-1,3-Dichloropropylene	5	2.5	U	
110-57-6	trans-1,4-dichloro-2-butene	5	2.5	U	
79-01-6	Trichloroethylene	5	2.5	U	
75-69-4	Trichlorofluoromethane	5	2.5	U	
75-01-4	Vinyl Chloride	5	2.5	U	
1330-20-7	Xylenes, Total	5	55	D	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	8.70	87.0	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	562654	6.447	449729	6.447	
ISTD: Chlorobenzene-d5	1597996	9.511	1638013	9.511	
ISTD: 1,2-Dichlorobenzene-d4	566625	12.527	611954	12.527	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: V841534.D

Sampled: 11/21/23 11:50 Prepared: 11/29/23 09:00 Analyzed: 11/29/23 14:01

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31853 Sequence: S3K3005 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	5	2.5	U	
71-55-6	1,1,1-Trichloroethane	5	2.5	U	
79-34-5	1,1,2,2-Tetrachloroethane	5	2.5	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5	2.5	U	UJ
79-00-5	1,1,2-Trichloroethane	5	2.5	U	
75-34-3	1,1-Dichloroethane	5	2.5	U	
75-35-4	1,1-Dichloroethylene	5	2.5	U	UJ
87-61-6	1,2,3-Trichlorobenzene	5	2.5	U	
96-18-4	1,2,3-Trichloropropane	5	2.5	U	
120-82-1	1,2,4-Trichlorobenzene	5	2.5	U	
95-63-6	1,2,4-Trimethylbenzene	5	2.4	JD	
96-12-8	1,2-Dibromo-3-chloropropane	5	2.5	U	
106-93-4	1,2-Dibromoethane	5	2.5	U	
95-50-1	1,2-Dichlorobenzene	5	2.5	U	
107-06-2	1,2-Dichloroethane	5	2.5	U	
78-87-5	1,2-Dichloropropane	5	2.5	U	
108-67-8	1,3,5-Trimethylbenzene	5	1.5	JD	
541-73-1	1,3-Dichlorobenzene	5	2.5	U	
106-46-7	1,4-Dichlorobenzene	5	2.5	U	
123-91-1	1,4-Dioxane	5	200	U	R
78-93-3	2-Butanone	5	2.5	U	UJ
591-78-6	2-Hexanone	5	2.5	U	UJ
108-10-1	4-Methyl-2-pentanone	5	2.5	U	
67-64-1	Acetone	5	10	U	UJ
107-02-8	Acrolein	5	2.5	U	
107-13-1	Acrylonitrile	5	2.5	U	UJ
71-43-2	Benzene	5	22	D	
74-97-5	Bromochloromethane	5	2.5	U	
75-27-4	Bromodichloromethane	5	2.5	U	
75-25-2	Bromoform	5	2.5	U	UJ
74-83-9	Bromomethane	5	2.5	U	UJ
75-15-0	Carbon disulfide	5	2.5	U	UJ
56-23-5	Carbon tetrachloride	5	2.5	U	
108-90-7	Chlorobenzene	5	2.5	U	
75-00-3	Chloroethane	5	2.5	U	
67-66-3	Chloroform	5	2.5	U	
74-87-3	Chloromethane	5	2.5	U	UJ
156-59-2	cis-1,2-Dichloroethylene	5	2.5	U	
10061-01-5	cis-1,3-Dichloropropylene	5	2.5	U	
110-82-7	Cyclohexane	5	38	D	

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: V841534.D

Sampled: 11/21/23 11:50 Prepared: 11/29/23 09:00 Analyzed: 11/29/23 14:01

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31853 Sequence: S3K3005 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	5	2.5	U	
74-95-3	Dibromomethane	5	2.5	U	
75-71-8	Dichlorodifluoromethane	5	2.5	U	UJ
100-41-4	Ethyl Benzene	5	2.6	D	
87-68-3	Hexachlorobutadiene	5	2.5	U	UJ
98-82-8	Isopropylbenzene	5	22	D	
79-20-9	Methyl acetate	5	2.5	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	5	2.5	U	
108-87-2	Methylcyclohexane	5	34	D	
75-09-2	Methylene chloride	5	10	U	UJ
104-51-8	n-Butylbenzene	5	10	D	NJ
103-65-1	n-Propylbenzene	5	21	D	
95-47-6	o-Xylene	5	1.4	JD	
179601-23-1	p- & m- Xylenes	5	4.0	JD	
99-87-6	p-Isopropyltoluene	5	1.3	JD	
135-98-8	sec-Butylbenzene	5	6.9	D	
100-42-5	Styrene	5	2.5	U	
75-65-0	tert-Butyl alcohol (TBA)	5	5.0	U	
98-06-6	tert-Butylbenzene	5	1.4	JD	
127-18-4	Tetrachloroethylene	5	2.5	U	UJ
108-88-3	Toluene	5	2.8	D	
156-60-5	trans-1,2-Dichloroethylene	5	2.5	U	
10061-02-6	trans-1,3-Dichloropropylene	5	2.5	U	
110-57-6	trans-1,4-dichloro-2-butene	5	2.5	U	
79-01-6	Trichloroethylene	5	2.5	U	
75-69-4	Trichlorofluoromethane	5	2.5	U	UJ
75-01-4	Vinyl Chloride	5	2.5	U	
1330-20-7	Xylenes, Total	5	5.4	JD	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.60	96.0	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.9	109	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	124798	5.791	149837	5.79	
ISTD: Chlorobenzene-d5	570149	8.817	605318	8.817	
ISTD: 1,2-Dichlorobenzene-d4	234101	11.806	280635	11.806	

* Values outside of QC limits

MKP 2/8/2024

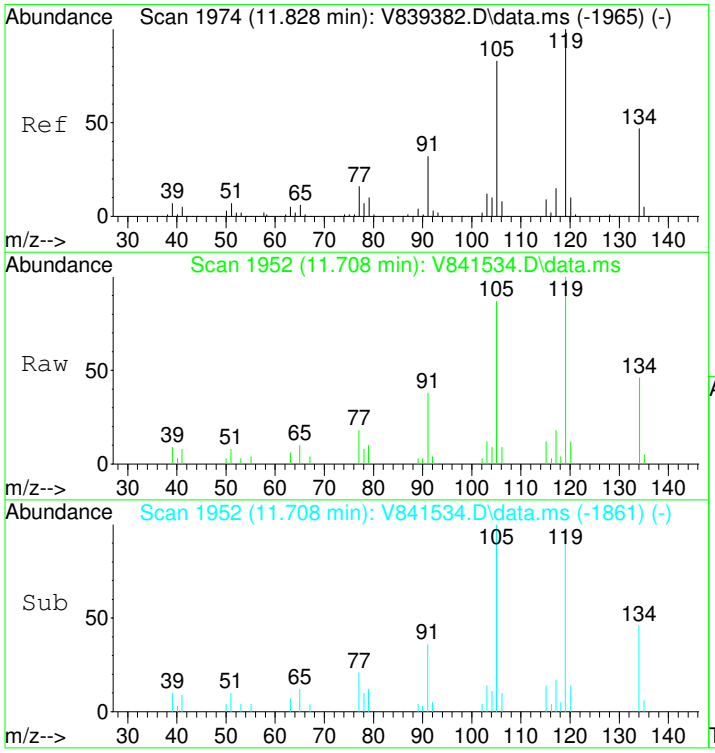
Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\112923A\
Data File : V841534.D
Acq On : 29 Nov 2023 2:01 pm
Operator : SMA
InstName : VOA No. 8
Sample : 23K1442-03
Misc : QBV8112923A 8260 COMP+TIC C RE 10ML/50ML
ALS Vial : 9 Sample Multiplier: 5

Quant Time: Nov 29 15:23:23 2023
Quant Method : C:\msdchem\1\methods\V8L112823.M
Quant Title : Volatile Organics EPA 8260C & 8260D & 624.1
QLast Update : Wed Nov 29 09:34:07 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE (ISTD)	5.791	70	124798	10.00	ppb		0.00
45) CHLOROBENZENE-d5 (ISTD)	8.817	117	570149	10.00	ppb		0.00
74) 1,2-DICHLOROBENZENE-d4...	11.806	152	234101	10.00	ppb		0.00
System Monitoring Compounds							
40) d4-1,2-Dichloroethane ...	5.518	65	157542	9.60	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.00%				
57) Toluene-d8 (SURR)	7.309	98	820602	10.17	ppb		0.00
Spiked Amount 10.000	Range 84 - 117		Recovery = 101.70%				
76) p-Bromofluorobenzene (...	10.085	95	278086	10.91	ppb		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.10%				
Target Compounds							Qvalue
37) Cyclohexane	5.186	56	113021	7.62	ppb	#	75
41) Benzene	5.529	78	170962	4.33	ppb	#	66
47) Methyl Cyclohexane	6.259	83	133656	6.87	ppb		96
58) Toluene	7.375	91	30606	0.56	ppb		98
68) Ethyl Benzene	8.926	91	34918	0.51	ppb		100
70) p- & m-Xylenes	9.046	91	44855	0.79	ppb		97
71) o-Xylene	9.481	91	15665	0.28	ppb		94
75) Isopropylbenzene	9.868	105	215091	4.35	ppb		98
79) n-Propylbenzene	10.320	91	242271	4.25	ppb		97
82) p-Ethyltoluene	10.439	105	19687	0.39	ppb	#	42
84) 1,3,5-Trimethylbenzene	10.510	105	12173	0.30	ppb		98
86) tert-Butylbenzene	10.875	119	9459	0.29	ppb		97
87) 1,2,4-Trimethylbenzene	10.935	105	19617	0.47	ppb		99
88) sec-Butylbenzene	11.120	105	58329	1.38	ppb		99
89) p-Isopropyltoluene	11.272	119	11088	0.26	ppb		97
92) 1,2,3-Trimethylbenzene	11.419	105	23581	0.57	ppb		97
93) p-Diethylbenzene	11.708	105	20986	1.05	ppb		95
94) n-Butylbenzene	11.713	134	16304	2.04	ppb	#	1
97) 1,2,4,5-Tetramethylben...	12.606	119	106730	3.46	ppb		99
102) Naphthalene	13.945	128	11307	0.63	ppb		97

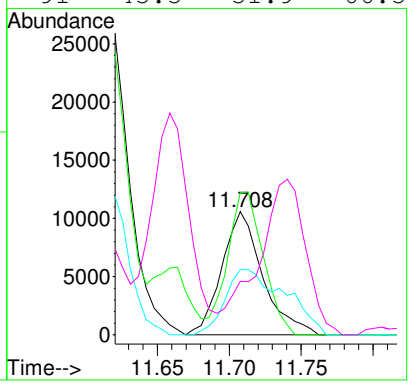
(#) = qualifier out of range (m) = manual integration (+) = signals summed

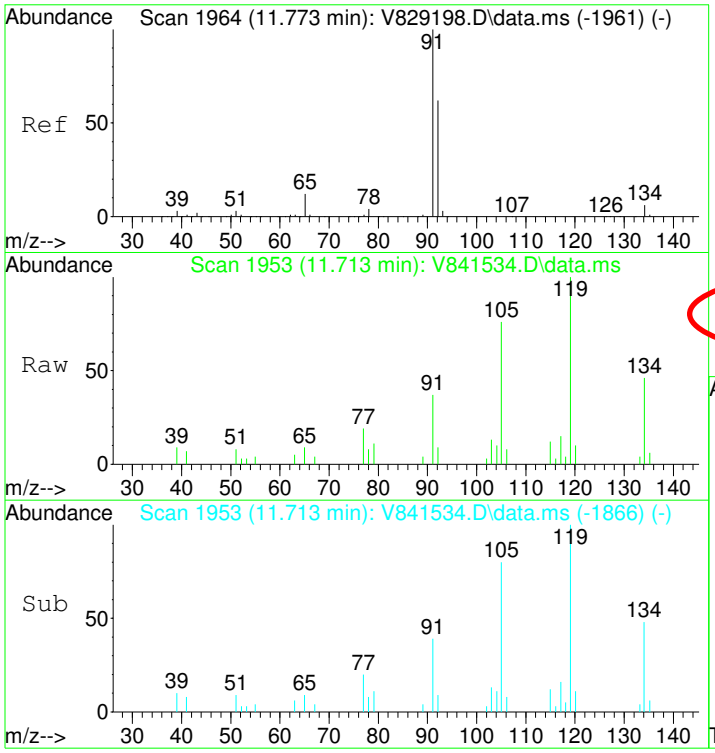


#93
p-Diethylbenzene
Concen: 1.05 ppb
RT: 11.708 min Scan# 1952
Delta R.T. -0.006 min
Lab File: V841534.D
Acq: 29 Nov 2023 2:01 pm

Tgt Ion:105 Resp: 20986

Ion	Ratio	Lower	Upper
105	100		
119	115.4	71.2	148.0
134	52.6	34.8	72.2
91	43.3	31.9	66.3

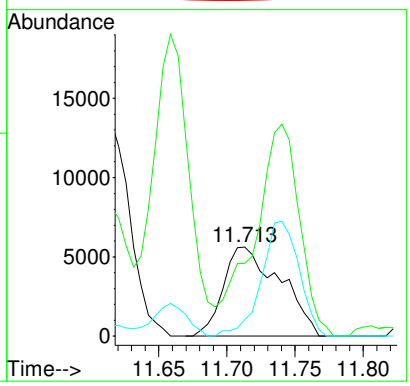




#94
n-Butylbenzene
Concen: 2.04 ppb
RT: 11.713 min Scan# 1953
Delta R.T. -0.027 min
Lab File: V841534.D
Acq: 29 Nov 2023 2:01 pm

Tgt Ion:134 Resp: 16304

Ion	Ratio	Lower	Upper
134	100		
91	81.5	241.3	501.1#
92	18.6	129.1	268.1#



FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: V10C021859.D

Sampled: 11/21/23 12:50 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 17:49

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	21		
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	UJ
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	54		
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	40	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	UJ
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	UJ
107-13-1	Acrylonitrile	1	0.50	U	
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	
74-83-9	Bromomethane	1	0.50	U	
75-15-0	Carbon disulfide	1	0.50	U	
56-23-5	Carbon tetrachloride	1	0.50	U	UJ
108-90-7	Chlorobenzene	1	0.50	U	UJ
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.50	U	
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
124-48-1	Dibromochloromethane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: V10C021859.D

Sampled: 11/21/23 12:50 Prepared: 11/28/23 09:00 Analyzed: 11/28/23 17:49

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31755 Sequence: S3K2916 Calibration: SK30023 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	
100-41-4	Ethyl Benzene	1	35		
87-68-3	Hexachlorobutadiene	1	0.50	U	
98-82-8	Isopropylbenzene	1	9.2		
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	
104-51-8	n-Butylbenzene	1	4.7		
103-65-1	n-Propylbenzene	1	24		
95-47-6	o-Xylene	1	3.2		
179601-23-1	p- & m- Xylenes	1	11		
99-87-6	p-Isopropyltoluene	1	3.8		
135-98-8	sec-Butylbenzene	1	2.6		
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	UJ
98-06-6	tert-Butylbenzene	1	0.31	J	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	2.6		
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	15		

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	7.79	77.9	69 - 130	
SURR: Toluene-d8	10.0	9.97	99.7	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.9	109	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	745715	6.45	449729	6.447	
ISTD: Chlorobenzene-d5	1583388	9.508	1638013	9.511	
ISTD: 1,2-Dichlorobenzene-d4	584864	12.527	611954	12.527	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

23MW7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-04RE1	File ID:	V841535.D
Sampled:	11/21/23 12:50	Prepared:	11/29/23 09:00	Analyzed:	11/29/23 14:29
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK31853	Sequence:	S3K3005	Calibration:	SK30015
Instrument:	VOA No. 8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	5	74	D
108-87-2	Methylcyclohexane	5	85	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.48	94.8	69 - 130	
SURR: Toluene-d8	10.0	10.5	105	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.95	99.5	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	149152	5.791	149837	5.79	
ISTD: Chlorobenzene-d5	583379	8.817	605318	8.817	
ISTD: 1,2-Dichlorobenzene-d4	264625	11.806	280635	11.806	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-05 File ID: V841536.D

Sampled: 11/21/23 15:00 Prepared: 11/29/23 09:00 Analyzed: 11/29/23 14:57

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31853 Sequence: S3K3005 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	~~40~~	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	
107-13-1	Acrylonitrile	1	0.50	U	UJ
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	UJ
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	0.57		J
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Field Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-05 File ID: V841536.D

Sampled: 11/21/23 15:00 Prepared: 11/29/23 09:00 Analyzed: 11/29/23 14:57

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31853 Sequence: S3K3005 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	UJ
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	UJ
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	UJ
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	UJ
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
SURR: Toluene-d8	10.0	10.4	104	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.0	110	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	120482	5.79	149837	5.79	
ISTD: Chlorobenzene-d5	526582	8.817	605318	8.817	
ISTD: 1,2-Dichlorobenzene-d4	201087	11.806	280635	11.806	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-06 File ID: V841532.D

Sampled: 11/21/23 15:00 Prepared: 11/29/23 09:00 Analyzed: 11/29/23 13:04

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31853 Sequence: S3K3005 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U	
71-55-6	1,1,1-Trichloroethane	1	0.50	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U	UJ
79-00-5	1,1,2-Trichloroethane	1	0.50	U	
75-34-3	1,1-Dichloroethane	1	0.50	U	
75-35-4	1,1-Dichloroethylene	1	0.50	U	UJ
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U	
96-18-4	1,2,3-Trichloropropane	1	0.50	U	
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U	
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U	
106-93-4	1,2-Dibromoethane	1	0.50	U	
95-50-1	1,2-Dichlorobenzene	1	0.50	U	
107-06-2	1,2-Dichloroethane	1	0.50	U	
78-87-5	1,2-Dichloropropane	1	0.50	U	
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U	
541-73-1	1,3-Dichlorobenzene	1	0.50	U	
106-46-7	1,4-Dichlorobenzene	1	0.50	U	
123-91-1	1,4-Dioxane	1	40	U	R
78-93-3	2-Butanone	1	0.50	U	UJ
591-78-6	2-Hexanone	1	0.50	U	UJ
108-10-1	4-Methyl-2-pentanone	1	0.50	U	
67-64-1	Acetone	1	2.0	U	UJ
107-02-8	Acrolein	1	0.50	U	
107-13-1	Acrylonitrile	1	0.50	U	UJ
71-43-2	Benzene	1	0.50	U	
74-97-5	Bromochloromethane	1	0.50	U	
75-27-4	Bromodichloromethane	1	0.50	U	
75-25-2	Bromoform	1	0.50	U	UJ
74-83-9	Bromomethane	1	0.50	U	UJ
75-15-0	Carbon disulfide	1	0.50	U	UJ
56-23-5	Carbon tetrachloride	1	0.50	U	
108-90-7	Chlorobenzene	1	0.50	U	
75-00-3	Chloroethane	1	0.50	U	
67-66-3	Chloroform	1	0.50	U	
74-87-3	Chloromethane	1	1.1		J
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U	
110-82-7	Cyclohexane	1	0.50	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260D

Trip Blank

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-06 File ID: V841532.D

Sampled: 11/21/23 15:00 Prepared: 11/29/23 09:00 Analyzed: 11/29/23 13:04

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK31853 Sequence: S3K3005 Calibration: SK30015 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
124-48-1	Dibromochloromethane	1	0.50	U	
74-95-3	Dibromomethane	1	0.50	U	
75-71-8	Dichlorodifluoromethane	1	0.50	U	UJ
100-41-4	Ethyl Benzene	1	0.50	U	
87-68-3	Hexachlorobutadiene	1	0.50	U	UJ
98-82-8	Isopropylbenzene	1	0.50	U	
79-20-9	Methyl acetate	1	0.50	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U	
108-87-2	Methylcyclohexane	1	0.50	U	
75-09-2	Methylene chloride	1	2.0	U	UJ
104-51-8	n-Butylbenzene	1	0.50	U	
103-65-1	n-Propylbenzene	1	0.50	U	
95-47-6	o-Xylene	1	0.50	U	
179601-23-1	p- & m- Xylenes	1	1.0	U	
99-87-6	p-Isopropyltoluene	1	0.50	U	
135-98-8	sec-Butylbenzene	1	0.50	U	
100-42-5	Styrene	1	0.50	U	
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U	
98-06-6	tert-Butylbenzene	1	0.50	U	
127-18-4	Tetrachloroethylene	1	0.50	U	UJ
108-88-3	Toluene	1	0.50	U	
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U	
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U	
79-01-6	Trichloroethylene	1	0.50	U	
75-69-4	Trichlorofluoromethane	1	0.50	U	UJ
75-01-4	Vinyl Chloride	1	0.50	U	
1330-20-7	Xylenes, Total	1	1.5	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.0	110	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	106972	5.791	149837	5.79	
ISTD: Chlorobenzene-d5	496827	8.817	605318	8.817	
ISTD: 1,2-Dichlorobenzene-d4	192899	11.806	280635	11.806	

* Values outside of QC limits

MKP 2/8/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: SVOA

METHOD: EPA 8270D

DATA PACKAGE COVER PAGE

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/28/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: E70351907.D

Sampled: 11/21/23 09:50 Prepared: 11/28/23 08:07 Analyzed: 12/01/23 10:08

Solids: Preparation: EPA 3510C Initial/Final: 900 mL / 1 mL

Batch: BK31717 Sequence: S3L0135 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.56	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.56	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.56	U	
95-50-1	1,2-Dichlorobenzene	1	5.56	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.56	U	
541-73-1	1,3-Dichlorobenzene	1	5.56	U	
106-46-7	1,4-Dichlorobenzene	1	5.56	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.56	U	
95-95-4	2,4,5-Trichlorophenol	1	5.56	U	
88-06-2	2,4,6-Trichlorophenol	1	5.56	U	
120-83-2	2,4-Dichlorophenol	1	5.56	U	
105-67-9	2,4-Dimethylphenol	1	2.81	J	
51-28-5	2,4-Dinitrophenol	1	5.56	U	UJ
121-14-2	2,4-Dinitrotoluene	1	5.56	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.56	U	UJ
91-58-7	2-Chloronaphthalene	1	5.56	U	
95-57-8	2-Chlorophenol	1	5.56	U	
91-57-6	2-Methylnaphthalene	1	5.56	U	
95-48-7	2-Methylphenol	1	5.56	U	
88-74-4	2-Nitroaniline	1	5.56	U	UJ
88-75-5	2-Nitrophenol	1	5.56	U	
65794-96-9	3- & 4-Methylphenols	1	5.56	U	
91-94-1	3,3-Dichlorobenzidine	1	5.56	U	
99-09-2	3-Nitroaniline	1	5.56	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.56	U	UJ
101-55-3	4-Bromophenyl phenyl ether	1	5.56	U	
59-50-7	4-Chloro-3-methylphenol	1	5.56	U	
106-47-8	4-Chloroaniline	1	5.56	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.56	U	
100-01-6	4-Nitroaniline	1	5.56	U	
100-02-7	4-Nitrophenol	1	5.56	U	
98-86-2	Acetophenone	1	5.56	U	
62-53-3	Aniline	1	5.56	U	
100-52-7	Benzaldehyde	1	5.56	U	
92-87-5	Benzidine	1	5.56	U	
65-85-0	Benzoic acid	1	5.56	U	UJ
100-51-6	Benzyl alcohol	1	5.56	U	
85-68-7	Benzyl butyl phthalate	1	5.56	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.56	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.56	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: E70351907.D

Sampled: 11/21/23 09:50 Prepared: 11/28/23 08:07 Analyzed: 12/01/23 10:08

Solids: Preparation: EPA 3510C Initial/Final: 900 mL / 1 mL

Batch: BK31717 Sequence: S3L0135 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-60-1	Bis(2-chloroisopropyl)ether	1	5.56	U	UJ
105-60-2	Caprolactam	1	5.56	U	
86-74-8	Carbazole	1	5.56	U	
132-64-9	Dibenzofuran	1	5.56	U	
84-66-2	Diethyl phthalate	1	5.56	U	
131-11-3	Dimethyl phthalate	1	5.56	U	
84-74-2	Di-n-butyl phthalate	1	5.56	U	
117-84-0	Di-n-octyl phthalate	1	5.56	U	UJ
77-47-4	Hexachlorocyclopentadiene	1	11.1	U	R
78-59-1	Isophorone	1	5.56	U	
621-64-7	N-nitroso-di-n-propylamine	1	5.56	U	
86-30-6	N-Nitrosodiphenylamine	1	5.56	U	
108-95-2	Phenol	1	5.56	U	
6025-45-2	Resorcinol	1	5.56	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	55.6	23.5	42.4	19.7 - 63.1	
SURR: Phenol-d6	55.6	17.0	30.5	10.1 - 41.7	
SURR: Nitrobenzene-d5	27.8	28.3	102	50.2 - 113	
SURR: 2-Fluorobiphenyl	27.8	29.2	105	39.9 - 105	
SURR: Terphenyl-d14	27.8	28.2	102	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	662081	4.765	660976	4.771	
ISTD: Naphthalene-d8	2701476	5.801	2973594	5.807	
ISTD: Acenaphthene-d10	1516416	7.453	1607969	7.459	
ISTD: Phenanthrene-d10	2552159	9.466	2736797	9.478	
ISTD: Chrysene-d12	1876655	14.074	2154279	14.086	
ISTD: Perylene-d12	2036903	17.082	2144873	17.088	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: E70351911.D

Sampled: 11/21/23 10:45 Prepared: 11/28/23 08:07 Analyzed: 12/01/23 12:08

Solids: Preparation: EPA 3510C Initial/Final: 950 mL / 1 mL

Batch: BK31717 Sequence: S3L0135 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.26	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.26	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.26	U	
95-50-1	1,2-Dichlorobenzene	1	5.26	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.26	U	
541-73-1	1,3-Dichlorobenzene	1	5.26	U	
106-46-7	1,4-Dichlorobenzene	1	5.26	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.26	U	
95-95-4	2,4,5-Trichlorophenol	1	5.26	U	
88-06-2	2,4,6-Trichlorophenol	1	5.26	U	
120-83-2	2,4-Dichlorophenol	1	5.26	U	
105-67-9	2,4-Dimethylphenol	1	5.26	U	
51-28-5	2,4-Dinitrophenol	1	5.26	U	UJ
121-14-2	2,4-Dinitrotoluene	1	5.26	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.26	U	UJ
91-58-7	2-Chloronaphthalene	1	5.26	U	
95-57-8	2-Chlorophenol	1	5.26	U	
91-57-6	2-Methylnaphthalene	1	30.2		
95-48-7	2-Methylphenol	1	5.26	U	
88-74-4	2-Nitroaniline	1	5.26	U	UJ
88-75-5	2-Nitrophenol	1	5.26	U	
65794-96-9	3- & 4-Methylphenols	1	5.26	U	
91-94-1	3,3-Dichlorobenzidine	1	5.26	U	
99-09-2	3-Nitroaniline	1	5.26	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.26	U	UJ
101-55-3	4-Bromophenyl phenyl ether	1	5.26	U	
59-50-7	4-Chloro-3-methylphenol	1	5.26	U	
106-47-8	4-Chloroaniline	1	5.26	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.26	U	
100-01-6	4-Nitroaniline	1	5.26	U	
100-02-7	4-Nitrophenol	1	5.26	U	
98-86-2	Acetophenone	1	5.26	U	
62-53-3	Aniline	1	5.26	U	
100-52-7	Benzaldehyde	1	5.26	U	
92-87-5	Benzidine	1	5.26	U	
65-85-0	Benzoic acid	1	5.26	U	UJ
100-51-6	Benzyl alcohol	1	5.26	U	
85-68-7	Benzyl butyl phthalate	1	5.26	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.26	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.26	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: E70351911.D

Sampled: 11/21/23 10:45 Prepared: 11/28/23 08:07 Analyzed: 12/01/23 12:08

Solids: Preparation: EPA 3510C Initial/Final: 950 mL / 1 mL

Batch: BK31717 Sequence: S3L0135 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-60-1	Bis(2-chloroisopropyl)ether	1	5.26	U	UJ
105-60-2	Caprolactam	1	5.26	U	
86-74-8	Carbazole	1	5.26	U	
132-64-9	Dibenzofuran	1	5.26	U	
84-66-2	Diethyl phthalate	1	5.26	U	
131-11-3	Dimethyl phthalate	1	5.26	U	
84-74-2	Di-n-butyl phthalate	1	5.26	U	
117-84-0	Di-n-octyl phthalate	1	5.26	U	UJ
77-47-4	Hexachlorocyclopentadiene	1	~~10.5~~	U	R
78-59-1	Isophorone	1	5.26	U	
621-64-7	N-nitroso-di-n-propylamine	1	5.26	U	
86-30-6	N-Nitrosodiphenylamine	1	5.26	U	
108-95-2	Phenol	1	5.26	U	
6025-45-2	Resorcinol	1	5.26	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	52.6	21.7	41.1	19.7 - 63.1	
SURR: Phenol-d6	52.6	13.0	24.7	10.1 - 41.7	
SURR: Nitrobenzene-d5	26.3	23.1	87.8	50.2 - 113	
SURR: 2-Fluorobiphenyl	26.3	24.3	92.5	39.9 - 105	
SURR: Terphenyl-d14	26.3	27.6	105	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	635265	4.759	660976	4.771	
ISTD: Naphthalene-d8	2587790	5.795	2973594	5.807	
ISTD: Acenaphthene-d10	1487225	7.441	1607969	7.459	
ISTD: Phenanthrene-d10	2554034	9.454	2736797	9.478	
ISTD: Chrysene-d12	1767363	14.062	2154279	14.086	
ISTD: Perylene-d12	1827358	17.07	2144873	17.088	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: E70351909.D

Sampled: 11/21/23 11:50 Prepared: 11/28/23 08:04 Analyzed: 12/01/23 11:08

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3L0135 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.00	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U	
95-50-1	1,2-Dichlorobenzene	1	5.00	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U	
541-73-1	1,3-Dichlorobenzene	1	5.00	U	
106-46-7	1,4-Dichlorobenzene	1	5.00	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U	
95-95-4	2,4,5-Trichlorophenol	1	5.00	U	
88-06-2	2,4,6-Trichlorophenol	1	5.00	U	
120-83-2	2,4-Dichlorophenol	1	5.00	U	
105-67-9	2,4-Dimethylphenol	1	5.00	U	
51-28-5	2,4-Dinitrophenol	1	5.00	U	UJ
121-14-2	2,4-Dinitrotoluene	1	5.00	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.00	U	UJ
91-58-7	2-Chloronaphthalene	1	5.00	U	
95-57-8	2-Chlorophenol	1	5.00	U	
91-57-6	2-Methylnaphthalene	1	5.00	U	
95-48-7	2-Methylphenol	1	5.00	U	
88-74-4	2-Nitroaniline	1	5.00	U	UJ
88-75-5	2-Nitrophenol	1	5.00	U	
65794-96-9	3- & 4-Methylphenols	1	5.00	U	
91-94-1	3,3-Dichlorobenzidine	1	5.00	U	
99-09-2	3-Nitroaniline	1	5.00	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U	UJ
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U	
59-50-7	4-Chloro-3-methylphenol	1	5.00	U	
106-47-8	4-Chloroaniline	1	5.00	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U	
100-01-6	4-Nitroaniline	1	5.00	U	
100-02-7	4-Nitrophenol	1	5.00	U	
98-86-2	Acetophenone	1	5.00	U	
62-53-3	Aniline	1	5.00	U	
100-52-7	Benzaldehyde	1	5.00	U	
92-87-5	Benzidine	1	5.00	U	
65-85-0	Benzoic acid	1	5.00	U	UJ
100-51-6	Benzyl alcohol	1	5.00	U	
85-68-7	Benzyl butyl phthalate	1	5.00	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1442

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water | Laboratory ID: 23K1442-03 | File ID: E70351909.D

Sampled: 11/21/23 11:50 | Prepared: 11/28/23 08:04 | Analyzed: 12/01/23 11:08

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3L0135 | Calibration: SK30004 | Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U	UJ
105-60-2	Caprolactam	1	5.00	U	
86-74-8	Carbazole	1	5.00	U	
132-64-9	Dibenzofuran	1	5.00	U	
84-66-2	Diethyl phthalate	1	5.00	U	
131-11-3	Dimethyl phthalate	1	5.00	U	
84-74-2	Di-n-butyl phthalate	1	5.00	U	
117-84-0	Di-n-octyl phthalate	1	5.00	U	UJ
77-47-4	Hexachlorocyclopentadiene	1	10.0	U	UJ
78-59-1	Isophorone	1	5.00	U	
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U	
86-30-6	N-Nitrosodiphenylamine	1	5.00	U	
108-95-2	Phenol	1	5.00	U	
6025-45-2	Resorcinol	1	5.00	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	17.8	35.7	19.7 - 63.1	
SURR: Phenol-d6	50.0	10.5	20.9	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	20.1	80.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	20.7	82.6	39.9 - 105	
SURR: Terphenyl-d14	25.0	24.1	96.6	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	718114	4.759	660976	4.771	
ISTD: Naphthalene-d8	2868688	5.795	2973594	5.807	
ISTD: Acenaphthene-d10	1675201	7.436	1607969	7.459	
ISTD: Phenanthrene-d10	2960392	9.46	2736797	9.478	
ISTD: Chrysene-d12	2094945	14.062	2154279	14.086	
ISTD: Perylene-d12	2109199	17.07	2144873	17.088	

* Values outside of QC limits

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: E70351910.D

Sampled: 11/21/23 12:50 Prepared: 11/28/23 08:04 Analyzed: 12/01/23 11:38

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3L0135 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
92-52-4	1,1-Biphenyl	1	5.00	U	
95-94-3	1,2,4,5-Tetrachlorobenzene	1	5.00	U	
120-82-1	1,2,4-Trichlorobenzene	1	5.00	U	
95-50-1	1,2-Dichlorobenzene	1	5.00	U	
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	1	5.00	U	
541-73-1	1,3-Dichlorobenzene	1	5.00	U	
106-46-7	1,4-Dichlorobenzene	1	5.00	U	
58-90-2	2,3,4,6-Tetrachlorophenol	1	5.00	U	
95-95-4	2,4,5-Trichlorophenol	1	5.00	U	
88-06-2	2,4,6-Trichlorophenol	1	5.00	U	
120-83-2	2,4-Dichlorophenol	1	5.00	U	
105-67-9	2,4-Dimethylphenol	1	5.00	U	
51-28-5	2,4-Dinitrophenol	1	5.00	U	UJ
121-14-2	2,4-Dinitrotoluene	1	5.00	U	UJ
606-20-2	2,6-Dinitrotoluene	1	5.00	U	UJ
91-58-7	2-Chloronaphthalene	1	5.00	U	
95-57-8	2-Chlorophenol	1	5.00	U	
91-57-6	2-Methylnaphthalene	1	5.00	U	
95-48-7	2-Methylphenol	1	5.00	U	
88-74-4	2-Nitroaniline	1	5.00	U	UJ
88-75-5	2-Nitrophenol	1	5.00	U	
65794-96-9	3- & 4-Methylphenols	1	5.00	U	
91-94-1	3,3-Dichlorobenzidine	1	5.00	U	
99-09-2	3-Nitroaniline	1	5.00	U	
534-52-1	4,6-Dinitro-2-methylphenol	1	5.00	U	UJ
101-55-3	4-Bromophenyl phenyl ether	1	5.00	U	
59-50-7	4-Chloro-3-methylphenol	1	5.00	U	
106-47-8	4-Chloroaniline	1	5.00	U	
7005-72-3	4-Chlorophenyl phenyl ether	1	5.00	U	
100-01-6	4-Nitroaniline	1	5.00	U	
100-02-7	4-Nitrophenol	1	5.00	U	
98-86-2	Acetophenone	1	5.00	U	
62-53-3	Aniline	1	5.00	U	
100-52-7	Benzaldehyde	1	5.00	U	
92-87-5	Benzidine	1	5.00	U	
65-85-0	Benzoic acid	1	5.00	U	UJ
100-51-6	Benzyl alcohol	1	5.00	U	
85-68-7	Benzyl butyl phthalate	1	5.00	U	
111-91-1	Bis(2-chloroethoxy)methane	1	5.00	U	
111-44-4	Bis(2-chloroethyl)ether	1	5.00	U	

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ORGANIC ANALYSIS DATA SHEET

EPA 8270D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: E70351910.D

Sampled: 11/21/23 12:50 Prepared: 11/28/23 08:04 Analyzed: 12/01/23 11:38

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3L0135 Calibration: SK30004 Instrument: BNA #7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
108-60-1	Bis(2-chloroisopropyl)ether	1	5.00	U	UJ
105-60-2	Caprolactam	1	5.00	U	
86-74-8	Carbazole	1	5.00	U	
132-64-9	Dibenzofuran	1	5.00	U	
84-66-2	Diethyl phthalate	1	5.00	U	
131-11-3	Dimethyl phthalate	1	5.00	U	
84-74-2	Di-n-butyl phthalate	1	5.00	U	
117-84-0	Di-n-octyl phthalate	1	5.00	U	UJ
77-47-4	Hexachlorocyclopentadiene	1	10.0	U	UJ
78-59-1	Isophorone	1	5.00	U	
621-64-7	N-nitroso-di-n-propylamine	1	5.00	U	
86-30-6	N-Nitrosodiphenylamine	1	5.00	U	
108-95-2	Phenol	1	5.00	U	
6025-45-2	Resorcinol	1	5.00	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 2-Fluorophenol	50.0	19.1	38.2	19.7 - 63.1	
SURR: Phenol-d6	50.0	11.3	22.7	10.1 - 41.7	
SURR: Nitrobenzene-d5	25.0	21.8	87.2	50.2 - 113	
SURR: 2-Fluorobiphenyl	25.0	23.4	93.6	39.9 - 105	
SURR: Terphenyl-d14	25.0	26.1	104	30.7 - 106	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	668386	4.759	660976	4.771	
ISTD: Naphthalene-d8	2658563	5.795	2973594	5.807	
ISTD: Acenaphthene-d10	1543456	7.436	1607969	7.459	
ISTD: Phenanthrene-d10	2621311	9.454	2736797	9.478	
ISTD: Chrysene-d12	1842588	14.062	2154279	14.086	
ISTD: Perylene-d12	1908497	17.07	2144873	17.088	

* Values outside of QC limits

MKP 2/8/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: SVOA

METHOD: EPA 8270D SIM

DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/28/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: SV5A5443.D

Sampled: 11/21/23 09:50 Prepared: 11/28/23 08:07 Analyzed: 12/01/23 15:13

Solids: Preparation: EPA 3510C Initial/Final: 900 mL / 1 mL

Batch: BK31717 Sequence: S3L0136 Calibration: SL30014 Instrument: BNA #5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	10	0.556	U	
208-96-8	Acenaphthylene	10	0.556	U	
120-12-7	Anthracene	10	0.556	U	
56-55-3	Benzo(a)anthracene	10	0.556	U	
50-32-8	Benzo(a)pyrene	10	0.556	U	
205-99-2	Benzo(b)fluoranthene	10	0.556	U	
191-24-2	Benzo(g,h,i)perylene	10	0.556	U	UJ
207-08-9	Benzo(k)fluoranthene	10	0.556	U	
117-81-7	Bis(2-ethylhexyl)phthalate	10	26.3	BD	J
218-01-9	Chrysene	10	0.556	U	
53-70-3	Dibenzo(a,h)anthracene	10	0.556	U	UJ
206-44-0	Fluoranthene	10	0.556	U	
86-73-7	Fluorene	10	0.556	U	
118-74-1	Hexachlorobenzene	10	0.222	U	UJ
87-68-3	Hexachlorobutadiene	10	5.56	U	
67-72-1	Hexachloroethane	10	5.56	U	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	10	0.556	U	UJ
91-20-3	Naphthalene	10	0.556	U	
98-95-3	Nitrobenzene	10	2.78	U	
62-75-9	N-Nitrosodimethylamine	10	~~5.56~~	U	R
85-01-8	Phenanthrene	10	0.556	U	
129-00-0	Pyrene	10	0.556	U	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1877023	7.58	2106773	7.57	
ISTD: Naphthalene-d8	4643371	9.14	5206217	9.14	
ISTD: Acenaphthene-d10	2683404	11.51	2892130	11.51	
ISTD: Phenanthrene-d10	4748835	13.62	5099105	13.62	
ISTD: Chrysene-d12	4642063	17.4	5625177	17.41	
ISTD: Perylene-d12	4541406	19.3	5419030	19.3	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1442

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water | Laboratory ID: 23K1442-02 | File ID: SV5A5415.D

Sampled: 11/21/23 10:45 | Prepared: 11/28/23 08:07 | Analyzed: 11/30/23 16:51

Solids: | Preparation: EPA 3510C | Initial/Final: 950 mL / 1 mL

Batch: BK31717 | Sequence: S3L0116 | Calibration: SL30014 | Instrument: BNA #5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	50	2.63	U	
208-96-8	Acenaphthylene	50	2.63	U	
120-12-7	Anthracene	50	2.63	D	J
56-55-3	Benzo(a)anthracene	50	2.63	U	
50-32-8	Benzo(a)pyrene	50	2.63	U	
205-99-2	Benzo(b)fluoranthene	50	2.63	U	
191-24-2	Benzo(g,h,i)perylene	50	2.63	U	
207-08-9	Benzo(k)fluoranthene	50	2.63	U	
117-81-7	Bis(2-ethylhexyl)phthalate	50	26.3	U	
218-01-9	Chrysene	50	2.63	U	
53-70-3	Dibenzo(a,h)anthracene	50	2.63	U	
206-44-0	Fluoranthene	50	2.63	U	
86-73-7	Fluorene	50	2.63	U	
118-74-1	Hexachlorobenzene	50	1.05	U	UJ
87-68-3	Hexachlorobutadiene	50	26.3	U	
67-72-1	Hexachloroethane	50	26.3	U	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	50	2.63	U	
91-20-3	Naphthalene	50	75.3	D	J
98-95-3	Nitrobenzene	50	13.2	U	
62-75-9	N-Nitrosodimethylamine	50	26.3	U	R
85-01-8	Phenanthrene	50	2.63	D	J
129-00-0	Pyrene	50	2.63	U	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1993399	7.59	2146392	7.59	
ISTD: Naphthalene-d8	5373572	9.16	5627188	9.16	
ISTD: Acenaphthene-d10	3150161	11.53	3144717	11.53	
ISTD: Phenanthrene-d10	5623362	13.64	5640639	13.64	
ISTD: Chrysene-d12	5046085	17.42	5884036	17.43	
ISTD: Perylene-d12	4042382	19.32	6739258	19.33	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 23K1442

Client: Touchstone Environmental Geology, PC | Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water | Laboratory ID: 23K1442-03 | File ID: SV5A5416.D

Sampled: 11/21/23 11:50 | Prepared: 11/28/23 08:04 | Analyzed: 11/30/23 17:21

Solids: | Preparation: EPA 3510C | Initial/Final: 1000 mL / 1 mL

Batch: BK31716 | Sequence: S3L0116 | Calibration: SL30014 | Instrument: BNA #5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	2	0.240	D	
208-96-8	Acenaphthylene	2	0.100	D	
120-12-7	Anthracene	2	0.100	U	
56-55-3	Benzo(a)anthracene	2	0.100	U	
50-32-8	Benzo(a)pyrene	2	0.100	U	
205-99-2	Benzo(b)fluoranthene	2	0.100	U	
191-24-2	Benzo(g,h,i)perylene	2	0.100	U	
207-08-9	Benzo(k)fluoranthene	2	0.100	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	1.00	U	
218-01-9	Chrysene	2	0.100	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.100	U	
206-44-0	Fluoranthene	2	0.160	D	
86-73-7	Fluorene	2	0.140	D	
118-74-1	Hexachlorobenzene	2	0.0400	U	UJ
87-68-3	Hexachlorobutadiene	2	1.00	U	
67-72-1	Hexachloroethane	2	1.00	U	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.100	U	
91-20-3	Naphthalene	2	2.16	D	
98-95-3	Nitrobenzene	2	0.500	U	
62-75-9	N-Nitrosodimethylamine	2	1.00	U	R
85-01-8	Phenanthrene	2	0.300	D	
129-00-0	Pyrene	2	0.120	D	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1764106	7.6	2146392	7.59	
ISTD: Naphthalene-d8	4885946	9.16	5627188	9.16	
ISTD: Acenaphthene-d10	2826610	11.53	3144717	11.53	
ISTD: Phenanthrene-d10	5201877	13.64	5640639	13.64	
ISTD: Chrysene-d12	4723759	17.43	5884036	17.43	
ISTD: Perylene-d12	4334252	19.33	6739258	19.33	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: SV5A5417.D

Sampled: 11/21/23 12:50 Prepared: 11/28/23 08:04 Analyzed: 11/30/23 17:52

Solids: Preparation: EPA 3510C Initial/Final: 1000 mL / 1 mL

Batch: BK31716 Sequence: S3L0116 Calibration: SL30014 Instrument: BNA #5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
83-32-9	Acenaphthene	2	0.120	D	
208-96-8	Acenaphthylene	2	0.100	U	
120-12-7	Anthracene	2	0.100	U	
56-55-3	Benzo(a)anthracene	2	0.100	U	
50-32-8	Benzo(a)pyrene	2	0.100	U	
205-99-2	Benzo(b)fluoranthene	2	0.100	U	
191-24-2	Benzo(g,h,i)perylene	2	0.100	U	
207-08-9	Benzo(k)fluoranthene	2	0.100	U	
117-81-7	Bis(2-ethylhexyl)phthalate	2	1.00	U	
218-01-9	Chrysene	2	0.100	U	
53-70-3	Dibenzo(a,h)anthracene	2	0.100	U	
206-44-0	Fluoranthene	2	0.180	D	
86-73-7	Fluorene	2	0.100	U	
118-74-1	Hexachlorobenzene	2	0.0400	U	UJ
87-68-3	Hexachlorobutadiene	2	1.00	U	
67-72-1	Hexachloroethane	2	1.00	U	UJ
193-39-5	Indeno(1,2,3-cd)pyrene	2	0.100	U	
91-20-3	Naphthalene	2	0.560	D	
98-95-3	Nitrobenzene	2	0.500	U	
62-75-9	N-Nitrosodimethylamine	2	~~1.00~~	U	R
85-01-8	Phenanthrene	2	0.100	U	
129-00-0	Pyrene	2	0.220	D	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	1775978	7.6	2146392	7.59	
ISTD: Naphthalene-d8	4895274	9.16	5627188	9.16	
ISTD: Acenaphthene-d10	2930719	11.53	3144717	11.53	
ISTD: Phenanthrene-d10	5184042	13.64	5640639	13.64	
ISTD: Chrysene-d12	4938784	17.43	5884036	17.43	
ISTD: Perylene-d12	4389803	19.33	6739258	19.33	

* Values outside of QC limits

MKP 2/8/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: SVOA

METHOD: EPA 8270D SIM

No data validation qualifiers were added

MKP 2/8/2024

DATA PACKAGE COVER PAGE

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/19/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-01	File ID:	E800073703.D
Sampled:	11/21/23 09:50	Prepared:	11/27/23 08:19	Analyzed:	11/27/23 21:12
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31624	Sequence:	S3K2830	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	2.79	69.8	36.6 - 118	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	192393	9.208	170298	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW5

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-02	File ID:	E800073704.D
Sampled:	11/21/23 10:45	Prepared:	11/27/23 08:19	Analyzed:	11/27/23 21:29
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31624	Sequence:	S3K2830	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	2.74	68.4	36.6 - 118	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	205086	9.209	170298	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW6

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-03	File ID:	E800073705.D
Sampled:	11/21/23 11:50	Prepared:	11/27/23 08:19	Analyzed:	11/27/23 21:47
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31624	Sequence:	S3K2830	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	3.06	76.5	36.6 - 118	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	189782	9.209	170298	9.216	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D SIM

23MW7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-04	File ID:	E800073706.D
Sampled:	11/21/23 12:50	Prepared:	11/27/23 08:19	Analyzed:	11/27/23 22:05
Solids:		Preparation:	EPA 3535A	Initial/Final:	125 mL / 2 mL
Batch:	BK31624	Sequence:	S3K2830	Calibration:	SK30040
Instrument:	MSBNA8				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
123-91-1	1,4-Dioxane	1	0.300	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,4-Dioxane-d8	4.00	2.98	74.6	36.6 - 118	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
1,2-Dichlorobenzene-d4	189778	9.209	170298	9.216	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: PEST

METHOD: EPA 8081B

DATA PACKAGE COVER PAGE

EPA 8081B

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/28/2023

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: P7019973.D

Sampled: 11/21/23 09:50 Prepared: 11/27/23 07:22 Analyzed: 11/28/23 18:57

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31625 Sequence: S3K2856 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	UJ
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	UJ
8001-35-2	Toxaphene	1	0.100	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.113	56.3	30 - 150	
Tetrachloro-m-xylene	0.200	0.127	63.6	30 - 150	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: P7019974.D

Sampled: 11/21/23 10:45 Prepared: 11/27/23 07:22 Analyzed: 11/28/23 19:14

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31625 Sequence: S3K2856 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	UJ
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	UJ
8001-35-2	Toxaphene	1	0.100	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0845	42.2	30 - 150	
Tetrachloro-m-xylene	0.200	0.128	63.9	30 - 150	

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: P7019975.D

Sampled: 11/21/23 11:50 Prepared: 11/27/23 07:22 Analyzed: 11/28/23 19:32

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31625 Sequence: S3K2856 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	UJ
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	UJ
8001-35-2	Toxaphene	1	0.100	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.0930	46.5	30 - 150	
Tetrachloro-m-xylene	0.200	0.341	170	30 - 150	*

* Values outside of QC limits

MKP 2/8/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8081B

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: P7019976.D

Sampled: 11/21/23 12:50 Prepared: 11/27/23 07:22 Analyzed: 11/28/23 19:50

Solids: Preparation: EPA SW846-3510C Low Le Initial/Final: 1000 mL / 1 mL

Batch: BK31625 Sequence: S3K2856 Calibration: SK30033 Instrument: PEST7

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	
72-54-8	4,4'-DDD	1	0.00400	U	
72-55-9	4,4'-DDE	1	0.00400	U	
50-29-3	4,4'-DDT	1	0.00400	U	UJ
309-00-2	Aldrin	1	0.00400	U	
319-84-6	alpha-BHC	1	0.00400	U	
5103-71-9	alpha-Chlordane	1	0.00400	U	
319-85-7	beta-BHC	1	0.00400	U	
57-74-9	Chlordane, total	1	0.0200	U	
319-86-8	delta-BHC	1	0.00400	U	
60-57-1	Dieldrin	1	0.00200	U	
959-98-8	Endosulfan I	1	0.00400	U	
33213-65-9	Endosulfan II	1	0.00400	U	
1031-07-8	Endosulfan sulfate	1	0.00400	U	
72-20-8	Endrin	1	0.00400	U	
7421-93-4	Endrin aldehyde	1	0.0100	U	
53494-70-5	Endrin ketone	1	0.0100	U	UJ
58-89-9	gamma-BHC (Lindane)	1	0.00400	U	
5566-34-7	gamma-Chlordane	1	0.0100	U	
76-44-8	Heptachlor	1	0.00400	U	
1024-57-3	Heptachlor epoxide	1	0.00400	U	
72-43-5	Methoxychlor	1	0.00400	U	UJ
8001-35-2	Toxaphene	1	0.100	U	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Decachlorobiphenyl	0.200	0.106	53.2	30 - 150	
Tetrachloro-m-xylene	0.200	0.109	54.6	30 - 150	

* Values outside of QC limits

MKP 2/8/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: ARO

METHOD: EPA 8082A

No data validation qualifiers were added

MKP 2/8/2024

DATA PACKAGE COVER PAGE

EPA 8082A

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/21/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-01	File ID:	P1134148.D
Sampled:	11/21/23 09:50	Prepared:	11/27/23 07:22	Analyzed:	11/28/23 17:18
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31625	Sequence:	S3K2944	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0500	U
11104-28-2	Aroclor 1221	1	0.0500	U
11141-16-5	Aroclor 1232	1	0.0500	U
53469-21-9	Aroclor 1242	1	0.0500	U
12672-29-6	Aroclor 1248	1	0.0500	U
11097-69-1	Aroclor 1254	1	0.0500	U
11096-82-5	Aroclor 1260	1	0.0500	U
1336-36-3	Total PCBs	1	0.0500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.107	53.5	30 - 120	
Decachlorobiphenyl	0.200	0.144	72.0	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW5

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-02	File ID:	P1134149.D
Sampled:	11/21/23 10:45	Prepared:	11/27/23 07:22	Analyzed:	11/28/23 17:31
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31625	Sequence:	S3K2944	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0500	U
11104-28-2	Aroclor 1221	1	0.0500	U
11141-16-5	Aroclor 1232	1	0.0500	U
53469-21-9	Aroclor 1242	1	0.0500	U
12672-29-6	Aroclor 1248	1	0.0500	U
11097-69-1	Aroclor 1254	1	0.0500	U
11096-82-5	Aroclor 1260	1	0.0500	U
1336-36-3	Total PCBs	1	0.0500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.106	53.0	30 - 120	
Decachlorobiphenyl	0.200	0.0910	45.5	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW6

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-03	File ID:	P1134150.D
Sampled:	11/21/23 11:50	Prepared:	11/27/23 07:22	Analyzed:	11/28/23 17:45
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31625	Sequence:	S3K2944	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0500	U
11104-28-2	Aroclor 1221	1	0.0500	U
11141-16-5	Aroclor 1232	1	0.0500	U
53469-21-9	Aroclor 1242	1	0.0500	U
12672-29-6	Aroclor 1248	1	0.0500	U
11097-69-1	Aroclor 1254	1	0.0500	U
11096-82-5	Aroclor 1260	1	0.0500	U
1336-36-3	Total PCBs	1	0.0500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.104	52.0	30 - 120	
Decachlorobiphenyl	0.200	0.120	60.0	30 - 120	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8082A

23MW7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Ground Water	Laboratory ID:	23K1442-04	File ID:	P1134151.D
Sampled:	11/21/23 12:50	Prepared:	11/27/23 07:22	Analyzed:	11/28/23 17:59
Solids:		Preparation:	EPA SW846-3510C Low Le	Initial/Final:	1000 mL / 1 mL
Batch:	BK31625	Sequence:	S3K2944	Calibration:	SJ30030
Instrument:	ECD#1				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
12674-11-2	Aroclor 1016	1	0.0500	U
11104-28-2	Aroclor 1221	1	0.0500	U
11141-16-5	Aroclor 1232	1	0.0500	U
53469-21-9	Aroclor 1242	1	0.0500	U
12672-29-6	Aroclor 1248	1	0.0500	U
11097-69-1	Aroclor 1254	1	0.0500	U
11096-82-5	Aroclor 1260	1	0.0500	U
1336-36-3	Total PCBs	1	0.0500	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Tetrachloro-m-xylene	0.200	0.104	52.0	30 - 120	
Decachlorobiphenyl	0.200	0.136	68.0	30 - 120	

* Values outside of QC limits

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: METALS

METHOD: EPA 6020B

DATA PACKAGE COVER PAGE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/19/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: QBIMX112823A-053

Sampled: 11/21/23 09:50 Prepared: 11/28/23 08:29 Analyzed: 11/28/23 16:37

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31728 Sequence: S3K2906 Calibration: 11/28/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	UJ
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	
7440-38-2	Arsenic	3.60	1		EPA 6020B	
7440-38-2	Arsenic (dissolved)	2.96	1		EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	UJ
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	UJ
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	
7782-49-2	Selenium	3.54	1	B	EPA 6020B	J
7782-49-2	Selenium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

MKP 2/8/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: QBIMX120123A-027

Sampled: 11/21/23 10:45 Prepared: 11/30/23 08:42 Analyzed: 12/01/23 12:11

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31933 Sequence: S3L0124 Calibration: 12/01/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.11	1	U	EPA 6020B
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B
7440-38-2	Arsenic	1.57	1		EPA 6020B
7440-38-2	Arsenic (dissolved)	1.11	1	U	EPA 6020B
7440-41-7	Beryllium	0.333	1	U	EPA 6020B
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B
7440-43-9	Cadmium	0.556	1	U	EPA 6020B
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B
7782-49-2	Selenium	1.11	1	U	EPA 6020B
7782-49-2	Selenium (dissolved)	1.11	1	U	EPA 6020B
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B
7440-28-0	Thallium	1.11	1	U	EPA 6020B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: QBIMX120123A-028

Sampled: 11/21/23 11:50 Prepared: 11/30/23 08:42 Analyzed: 12/01/23 12:14

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31933 Sequence: S3L0124 Calibration: 12/01/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.11	1	U	EPA 6020B
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B
7440-38-2	Arsenic	2.80	1		EPA 6020B
7440-38-2	Arsenic (dissolved)	3.97	1		EPA 6020B
7440-41-7	Beryllium	0.333	1	U	EPA 6020B
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B
7440-43-9	Cadmium	0.556	1	U	EPA 6020B
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B
7782-49-2	Selenium	1.11	1	U	EPA 6020B
7782-49-2	Selenium (dissolved)	1.11	1	U	EPA 6020B
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B
7440-28-0	Thallium	1.11	1	U	EPA 6020B

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: QBIMX120123A-029

Sampled: 11/21/23 12:50 Prepared: 11/30/23 08:42 Analyzed: 12/01/23 12:17

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31933 Sequence: S3L0124 Calibration: 12/01/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method	
7440-36-0	Antimony	1.11	1	U	EPA 6020B	
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B	
7440-38-2	Arsenic	18.3	1		EPA 6020B	J
7440-38-2	Arsenic (dissolved)	7.45	1		EPA 6020B	
7440-41-7	Beryllium	0.333	1	U	EPA 6020B	
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B	
7440-43-9	Cadmium	0.556	1	U	EPA 6020B	
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B	
7782-49-2	Selenium	1.11	1	U	EPA 6020B	
7782-49-2	Selenium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B	
7440-28-0	Thallium	1.11	1	U	EPA 6020B	

MKP 2/8/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: METALS

METHOD: EPA 6010D

DATA PACKAGE COVER PAGE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/19/2023
Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: QBICP2-120123BSRE_1-038

Sampled: 11/21/23 09:50 Prepared: 11/29/23 08:38 Analyzed: 12/01/23 16:46

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31836 Sequence: S3L0145 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	0.153	1		EPA 6010D	
7429-90-5	Aluminum (dissolved)	0.175	1		EPA 6010D	
7440-39-3	Barium	0.122	1		EPA 6010D	J+
7440-39-3	Barium (dissolved)	0.0735	1		EPA 6010D	J+
7440-70-2	Calcium	157	1		EPA 6010D	
7440-70-2	Calcium (dissolved)	174	1		EPA 6010D	
7440-47-3	Chromium	0.00556	1	U	EPA 6010D	
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D	
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D	
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D	
7440-50-8	Copper	0.0222	1	U	EPA 6010D	
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D	
7439-89-6	Iron	2.01	1		EPA 6010D	
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D	
7439-92-1	Lead	0.0327	1	B	EPA 6010D	J
7439-92-1	Lead (dissolved)	0.00944	1	B	EPA 6010D	J
7439-95-4	Magnesium	22.7	1		EPA 6010D	
7439-95-4	Magnesium (dissolved)	25.2	1		EPA 6010D	
7439-96-5	Manganese	0.320	1		EPA 6010D	
7439-96-5	Manganese (dissolved)	0.307	1		EPA 6010D	
7440-02-0	Nickel	0.0111	1	U	EPA 6010D	
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D	
7440-09-7	Potassium	22.7	1		EPA 6010D	
7440-09-7	Potassium (dissolved)	24.2	1		EPA 6010D	
7440-22-4	Silver	0.00556	1	U	EPA 6010D	

MKP 2/8/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: QBICP2-120123BSRE_1-050

Sampled: 11/21/23 09:50 Prepared: 11/30/23 08:46 Analyzed: 12/01/23 17:22

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31934 Sequence: S3L0146 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	68.8	1		EPA 6010D	J+
7440-23-5	Sodium (dissolved)	68.1	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

MKP 2/8/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: QBICP2-120123BSRE_1-039

Sampled: 11/21/23 10:45 Prepared: 11/29/23 08:38 Analyzed: 12/01/23 16:49

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31836 Sequence: S3L0145 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	0.127	1		EPA 6010D	J
7429-90-5	Aluminum (dissolved)	0.0556	1	U	EPA 6010D	
7440-39-3	Barium	0.209	1		EPA 6010D	J+
7440-39-3	Barium (dissolved)	0.0845	1		EPA 6010D	J+
7440-70-2	Calcium	116	1		EPA 6010D	J
7440-70-2	Calcium (dissolved)	122	1		EPA 6010D	
7440-47-3	Chromium	0.00556	1	U	EPA 6010D	
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D	
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D	
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D	
7440-50-8	Copper	0.0222	1	U	EPA 6010D	
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D	
7439-89-6	Iron	10.2	1		EPA 6010D	J
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D	
7439-92-1	Lead	0.0194	1	B	EPA 6010D	J
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D	
7439-95-4	Magnesium	40.9	1		EPA 6010D	J
7439-95-4	Magnesium (dissolved)	43.6	1		EPA 6010D	
7439-96-5	Manganese	0.792	1		EPA 6010D	
7439-96-5	Manganese (dissolved)	0.766	1		EPA 6010D	
7440-02-0	Nickel	0.0111	1	U	EPA 6010D	
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D	
7440-09-7	Potassium	34.6	1		EPA 6010D	
7440-09-7	Potassium (dissolved)	35.6	1		EPA 6010D	
7440-22-4	Silver	0.00556	1	U	EPA 6010D	

MKP 2/8/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: QBICP2-120123BSRE_1-051

Sampled: 11/21/23 10:45 Prepared: 11/30/23 08:46 Analyzed: 12/01/23 17:25

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31934 Sequence: S3L0146 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	188	1		EPA 6010D	J+
7440-23-5	Sodium (dissolved)	187	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

MKP 2/8/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: QBICP2-120123BSRE_1-046

Sampled: 11/21/23 11:50 Prepared: 11/29/23 08:38 Analyzed: 12/01/23 17:12

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31836 Sequence: S3L0145 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	0.336	1		EPA 6010D	
7429-90-5	Aluminum (dissolved)	0.0822	1		EPA 6010D	
7440-39-3	Barium	0.198	1		EPA 6010D	J+
7440-39-3	Barium (dissolved)	0.181	1		EPA 6010D	J+
7440-70-2	Calcium	264	1		EPA 6010D	
7440-70-2	Calcium (dissolved)	263	1		EPA 6010D	
7440-47-3	Chromium	0.00556	1	U	EPA 6010D	
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D	
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D	
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D	
7440-50-8	Copper	0.0222	1	U	EPA 6010D	
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D	
7439-89-6	Iron	0.848	1		EPA 6010D	
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D	
7439-92-1	Lead	0.0148	1	B	EPA 6010D	J
7439-92-1	Lead (dissolved)	0.00847	1	B	EPA 6010D	J
7439-95-4	Magnesium	31.7	1		EPA 6010D	
7439-95-4	Magnesium (dissolved)	31.8	1		EPA 6010D	
7439-96-5	Manganese	1.34	1		EPA 6010D	
7439-96-5	Manganese (dissolved)	1.34	1		EPA 6010D	
7440-02-0	Nickel	0.0111	1	U	EPA 6010D	
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D	
7440-09-7	Potassium	22.1	1		EPA 6010D	
7440-09-7	Potassium (dissolved)	22.1	1		EPA 6010D	
7440-22-4	Silver	0.00556	1	U	EPA 6010D	

MKP 2/8/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: QBICP2-120123BSRE_1-052

Sampled: 11/21/23 11:50 Prepared: 11/30/23 08:46 Analyzed: 12/01/23 17:28

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31934 Sequence: S3L0146 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	36.0	1		EPA 6010D	J+
7440-23-5	Sodium (dissolved)	35.6	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: QBICP2-120123BSRE_1-047

Sampled: 11/21/23 12:50 Prepared: 11/29/23 08:38 Analyzed: 12/01/23 17:15

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31836 Sequence: S3L0145 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7429-90-5	Aluminum	0.388	1		EPA 6010D	
7429-90-5	Aluminum (dissolved)	0.0958	1		EPA 6010D	J
7440-39-3	Barium	0.147	1		EPA 6010D	J+
7440-39-3	Barium (dissolved)	0.0828	1		EPA 6010D	J+
7440-70-2	Calcium	170	1		EPA 6010D	
7440-70-2	Calcium (dissolved)	166	1		EPA 6010D	
7440-47-3	Chromium	0.00556	1	U	EPA 6010D	
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D	
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D	
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D	
7440-50-8	Copper	0.0222	1	U	EPA 6010D	
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D	
7439-89-6	Iron	7.66	1		EPA 6010D	
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D	
7439-92-1	Lead	0.0526	1	B	EPA 6010D	J
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D	
7439-95-4	Magnesium	25.5	1		EPA 6010D	
7439-95-4	Magnesium (dissolved)	25.0	1		EPA 6010D	
7439-96-5	Manganese	0.658	1		EPA 6010D	
7439-96-5	Manganese (dissolved)	0.622	1		EPA 6010D	
7440-02-0	Nickel	0.0111	1	U	EPA 6010D	
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D	
7440-09-7	Potassium	18.8	1		EPA 6010D	
7440-09-7	Potassium (dissolved)	18.4	1		EPA 6010D	
7440-22-4	Silver	0.00556	1	U	EPA 6010D	

MKP 2/8/2024

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: QBICP2-120123BSRE_1-053

Sampled: 11/21/23 12:50 Prepared: 11/30/23 08:46 Analyzed: 12/01/23 17:31

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK31934 Sequence: S3L0146 Calibration: 12/01/23 1 Instrument: AvioICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D	
7440-23-5	Sodium	41.1	1		EPA 6010D	J+
7440-23-5	Sodium (dissolved)	41.2	1		EPA 6010D	J+
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D	
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D	
7440-66-6	Zinc	0.0278	1	U	EPA 6010D	UJ
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D	UJ

MKP 2/8/2024

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: HG

METHOD: EPA 7470

No data validation qualifiers were added

MKP 2/8/2024

DATA PACKAGE COVER PAGE

EPA 7470

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/21/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: QBHg11292023A-022

Sampled: 11/21/23 09:50 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0003	1		EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: QBHg11292023A-023

Sampled: 11/21/23 10:45 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: QBHg11292023A-024

Sampled: 11/21/23 11:50 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: QBHg11292023A-027

Sampled: 11/21/23 12:50 Prepared: 11/28/23 09:09 Analyzed: 11/28/23 09:09

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31750 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0012	1		EPA 7470

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: HG

METHOD: EPA 7470

No data validation qualifiers were added

MKP 2/8/2024

DATA PACKAGE COVER PAGE

EPA 7470

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/21/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID: QBHg11292023A-040

Sampled: 11/21/23 09:50 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID: QBHg11292023A-041

Sampled: 11/21/23 10:45 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID: QBHg11292023A-042

Sampled: 11/21/23 11:50 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID: QBHg11292023A-043

Sampled: 11/21/23 12:50 Prepared: 11/28/23 09:12 Analyzed: 11/28/23 09:12

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK31751 Sequence: Calibration: 11/28/23 0 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0002	1	U	EPA 7470

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: WET

METHOD: Calculation

No data validation qualifiers were added

MKP 2/8/2024

DATA PACKAGE COVER PAGE

Calculation

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/19/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID:

Sampled: 11/21/23 09:50 Prepared: 12/01/23 13:13 Analyzed: 12/01/23 18:40

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BL30052 Sequence: Calibration: 12/01/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID:

Sampled: 11/21/23 10:45 Prepared: 12/01/23 13:13 Analyzed: 12/01/23 18:40

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BL30052 Sequence: Calibration: 12/01/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID:

Sampled: 11/21/23 11:50 Prepared: 12/01/23 13:13 Analyzed: 12/01/23 18:40

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BL30052 Sequence: Calibration: 12/01/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

FORM I **INORGANIC ANALYSIS DATA SHEET**

Calculation

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID:

Sampled: 11/21/23 12:50 Prepared: 12/01/23 13:13 Analyzed: 12/01/23 18:40

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BL30052 Sequence: Calibration: 12/01/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16065-83-1	Chromium, Trivalent	0.0100	1	U	Calculation

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: WET

METHOD: EPA 7196A

No data validation qualifiers were added

MKP 2/8/2024

DATA PACKAGE COVER PAGE

EPA 7196A

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/19/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID:

Sampled: 11/21/23 09:50 Prepared: 11/21/23 22:08 Analyzed: 11/21/23 23:07

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31443 Sequence: Calibration: 11/21/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID:

Sampled: 11/21/23 10:45 Prepared: 11/21/23 22:08 Analyzed: 11/21/23 23:07

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31443 Sequence: Calibration: 11/21/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID:

Sampled: 11/21/23 11:50 Prepared: 11/21/23 22:08 Analyzed: 11/21/23 23:07

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31443 Sequence: Calibration: 11/21/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7196A

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID:

Sampled: 11/21/23 12:50 Prepared: 11/21/23 22:08 Analyzed: 11/21/23 23:07

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 100 mL / 100 mL

Batch: BK31443 Sequence: Calibration: 11/21/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
18540-29-9	Chromium, Hexavalent	0.0100	1	U	EPA 7196A

York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

CLASS: WET

METHOD: SM 4500 CN C-2016 / E-2016

DATA PACKAGE COVER PAGE

SM 4500 CN C-2016 / E-2016

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Project: 220293 100 E. 149th St. Bronx NY

Client Sample Id:	Lab Sample Id:
23MW4	23K1442-01
23MW5	23K1442-02
23MW6	23K1442-03
23MW7	23K1442-04

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 12/19/2023

Title: Laboratory Manager

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-01 File ID:

Sampled: 11/21/23 09:50 Prepared: 11/27/23 14:37 Analyzed: 11/27/23 22:47

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BK31685 Sequence: Calibration: 11/27/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.258	2	D	SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-02 File ID:

Sampled: 11/21/23 10:45 Prepared: 11/27/23 14:37 Analyzed: 11/27/23 22:47

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BK31685 Sequence: Calibration: 11/27/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.0100	1	U	SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-03 File ID:

Sampled: 11/21/23 11:50 Prepared: 11/27/23 14:37 Analyzed: 11/27/23 22:47

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BK31685 Sequence: Calibration: 11/27/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
57-12-5	Cyanide, total	0.122	1		SM 4500 CN C-2016 / E-2016

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 4500 CN C-2016 / E-2016

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC Project: 220293 100 E. 149th St. Bronx NY

Matrix: Ground Water Laboratory ID: 23K1442-04 File ID:

Sampled: 11/21/23 12:50 Prepared: 11/27/23 14:37 Analyzed: 11/27/23 22:47

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BK31685 Sequence: Calibration: 11/27/23 2 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method	
57-12-5	Cyanide, total	0.0580	1		SM 4500 CN C-2016 / E-2016	J-

MKP 2/8/2024

Appendix B

Laboratory QC Documentation

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31755	Laboratory ID:	BK31755-BS1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCS CONCENTRATION ppb	LCS % REC. #	QC LIMITS REC.
Bromomethane	10.0	9.0	90.2	43 - 168
Carbon disulfide	10.0	11	107	68 - 146
Carbon tetrachloride	10.0	9.8	98.2	77 - 141
Chlorobenzene	10.0	9.9	98.8	88 - 120
Chloroethane	10.0	10	103	65 - 136
Chloroform	10.0	9.8	97.5	82 - 128
Chloromethane	10.0	12	123	43 - 155
cis-1,2-Dichloroethylene	10.0	10	102	83 - 129
cis-1,3-Dichloropropylene	10.0	9.9	99.0	80 - 131
Cyclohexane	10.0	10	101	63 - 149
Dibromochloromethane	10.0	10	103	80 - 130
Dibromomethane	10.0	10	103	72 - 134
Dichlorodifluoromethane	10.0	14	136	44 - 144
Ethyl Benzene	10.0	10	103	80 - 131
Hexachlorobutadiene	10.0	11	108	67 - 146
Isopropylbenzene	10.0	10	99.5	76 - 140
Methyl acetate	10.0	10	104	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	10	103	76 - 135
Methylcyclohexane	10.0	10	102	72 - 143
Methylene chloride	10.0	10	100	55 - 137
n-Butylbenzene	10.0	11	110	79 - 132
n-Propylbenzene	10.0	10	103	78 - 133
o-Xylene	10.0	10	101	78 - 130
p- & m- Xylenes	20.0	21	104	77 - 133
p-Isopropyltoluene	10.0	10	105	81 - 136
sec-Butylbenzene	10.0	10	103	79 - 137
Styrene	10.0	10	102	67 - 132
tert-Butyl alcohol (TBA)	50.0	62	124	25 - 162
tert-Butylbenzene	10.0	10	99.6	77 - 138
Tetrachloroethylene	10.0	5.4	54.1 *	82 - 131

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31755	Laboratory ID:	BK31755-BSD1
Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL

COMPOUND	SPIKE ADDED ppb	LCSD CONCENTRATION ppb	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Bromomethane	10.0	11	105	15.5	30	43 - 168
Carbon disulfide	10.0	11	106	1.22	30	68 - 146
Carbon tetrachloride	10.0	9.8	97.8	0.408	30	77 - 141
Chlorobenzene	10.0	9.9	98.9	0.101	30	88 - 120
Chloroethane	10.0	10	104	1.06	30	65 - 136
Chloroform	10.0	9.8	98.2	0.715	30	82 - 128
Chloromethane	10.0	12	120	2.14	30	43 - 155
cis-1,2-Dichloroethylene	10.0	10	102	0.196	30	83 - 129
cis-1,3-Dichloropropylene	10.0	10	102	3.08	30	80 - 131
Cyclohexane	10.0	10	101	0.496	30	63 - 149
Dibromochloromethane	10.0	11	107	4.01	30	80 - 130
Dibromomethane	10.0	10	105	1.93	30	72 - 134
Dichlorodifluoromethane	10.0	14	136	0.515	30	44 - 144
Ethyl Benzene	10.0	10	102	0.586	30	80 - 131
Hexachlorobutadiene	10.0	10	102	5.69	30	67 - 146
Isopropylbenzene	10.0	9.7	96.6	2.96	30	76 - 140
Methyl acetate	10.0	11	109	4.49	30	51 - 139
Methyl tert-butyl ether (MTBE)	10.0	11	112	7.73	30	76 - 135
Methylcyclohexane	10.0	10	99.6	2.09	30	72 - 143
Methylene chloride	10.0	10	103	2.75	30	55 - 137
n-Butylbenzene	10.0	11	108	1.83	30	79 - 132
n-Propylbenzene	10.0	10	99.7	3.35	30	78 - 133
o-Xylene	10.0	10	101	0.0989	30	78 - 130
p- & m- Xylenes	20.0	21	103	1.06	30	77 - 133
p-Isopropyltoluene	10.0	10	102	2.22	30	81 - 136
sec-Butylbenzene	10.0	10	100	2.95	30	79 - 137
Styrene	10.0	10	103	0.780	30	67 - 132
tert-Butyl alcohol (TBA)	50.0	67	135	7.99	30	25 - 162
tert-Butylbenzene	10.0	9.7	97.3	2.34	30	77 - 138
Tetrachloroethylene	10.0	5.4	53.6 *	0.929	30	82 - 131

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30015
Instrument: VOA No. 8
Calibration Date: 11/03/23 08:21

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.252487	16.09627	8.937625	1.502891E-02		0.9994804	0.99	
1,1,1-Trichloroethane	1.676194	12.47571	5.173125	4.838367E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.4083268	3.235743	10.28825	2.687498E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.9052299	5.663156	3.00525	0.1026015			SPCC (0.1)	
1,1,2-Trichloroethane	0.1638889	7.168131	7.84425	3.410324E-02			SPCC (0.1)	
1,1-Dichloroethane	1.71564	10.89537	4.19	1.543197E-02			SPCC (0.2)	
1,1-Dichloroethylene	1.319827	7.391632	3.039375	9.240386E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.377977	12.21371	5.320125	5.070292E-02			20	
1,2,3-Trichlorobenzene	0.3191153	6.390812	14.222	1.572699E-02			20	
1,2,3-Trichloropropane	0.1229479	11.51619	10.33525	2.783048E-02			20	
1,2,4,5-Tetramethylbenzene	1.76123	3.678628	12.606	1.890681E-02			20	
1,2,4-Trichlorobenzene	0.4262647	8.03048	13.6465	2.035218E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.304133	6.394563	10.93563	1.679805E-02			20	
1,2-Dibromo-3-chloropropane	6.500658E-02	9.461586	12.753	2.251016E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1535879	8.414096	8.376	2.429507E-02			SPCC (0.1)	
1,2-Dichlorobenzene	1.048737	8.569552	11.82787	9.896169E-03			SPCC (0.4)	
1,2-Dichloroethane	0.9439081	9.113743	5.591625	5.066179E-02			SPCC (0.1)	
1,2-Dichloropropane	0.237461	7.037048	6.380375	5.044474E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.365377	5.541924	10.51	2.653807E-02			20	
1,3-Dichlorobenzene	1.215782	13.00782	11.294	6.619869E-03			SPCC (0.6)	
1,3-Dichloropropane	0.28404	7.461732	8.01125	1.482835E-02			20	
1,4-Dichlorobenzene	1.195445	11.38534	11.39713	2.700964E-02			SPCC (0.5)	
1,4-Dioxane	1.12822E-03	28.08788	6.51725	0.0441906		0.9989541	0.99	
2,2-Dichloropropane	1.519586	7.086546	4.7085	6.176185E-02			20	
2-Butanone	6.586937E-02	22.24638	4.763429	8.055623E-02		0.9993472	SPCC (0.1)	
2-Chlorotoluene	2.404439	7.792115	10.44687	2.231395E-02			20	
2-Hexanone	9.722319E-02	7.063256	8.057625	4.675217E-02			SPCC (0.1)	
4-Chlorotoluene	2.059142	4.941344	10.57125	0.0174712			20	
4-Methyl-2-pentanone	0.1237697	7.445146	7.2125	3.829822E-02			SPCC (0.1)	
Acetone	0.2617927	47.91182	3.145	8.380614E-02		0.9992991	SPCC (0.1)	
Acrolein	5.997976E-02	4.101672	2.9925	4.764323E-03			20	
Acrylonitrile	0.1307435	5.561161	3.823125	6.920304E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30023
Instrument: VOA No. 10
Calibration Date: 11/13/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.2043132	7.835886	9.628	2.134549E-02			20	
1,1,1-Trichloroethane	1.31616	8.508703	5.817	1.240228E-02			SPCC (0.1)	
1,1,2,2-Tetrachloroethane	0.2847887	5.757991	10.979	2.391796E-02			SPCC (0.3)	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.165737	8.352415	3.02225	8.899023E-02			SPCC (0.1)	
1,1,2-Trichloroethane	0.1249969	4.704316	8.51775	4.483666E-02			SPCC (0.1)	
1,1-Dichloroethane	1.620439	7.740313	4.804375	0.0392926			SPCC (0.2)	
1,1-Dichloroethylene	1.201651	6.701393	3.593625	9.753026E-02			SPCC (0.1)	
1,1-Dichloropropylene	1.263368	6.664918	5.969	4.968925E-02			20	
1,2,3-Trichlorobenzene	0.1856812	7.528253	14.96288	2.210176E-02			20	
1,2,3-Trichloropropane	8.673113E-02	5.53618	11.03225	4.034685E-02			20	
1,2,4,5-Tetramethylbenzene	1.566518	8.402841	13.31037	2.183343E-02			20	
1,2,4-Trichlorobenzene	0.3226344	5.819927	14.37912	2.870091E-02			SPCC (0.2)	
1,2,4-Trimethylbenzene	2.470927	7.245235	11.63113	7.121948E-03			20	
1,2-Dibromo-3-chloropropane	3.609697E-02	8.117747	13.48088	3.879642E-02			SPCC (0.05)	
1,2-Dibromoethane	0.1114937	6.49781	9.071625	4.330319E-02			SPCC (0.1)	
1,2-Dichlorobenzene	0.9558958	6.923761	12.548	2.439198E-02			SPCC (0.4)	
1,2-Dichloroethane	0.6602432	5.479099	6.2455	3.825149E-02			SPCC (0.1)	
1,2-Dichloropropane	0.2347168	5.762307	7.04725	4.284907E-02			SPCC (0.1)	
1,3,5-Trimethylbenzene	2.565678	9.261794	11.19825	1.962082E-02			20	
1,3-Dichlorobenzene	1.235505	9.365939	12.006	3.043911E-02			SPCC (0.6)	
1,3-Dichloropropane	0.2250245	5.689955	8.691	2.047404E-02			20	
1,4-Dichlorobenzene	1.202635	9.229982	12.10775	1.708694E-02			SPCC (0.5)	
1,4-Dioxane	7.185599E-04	12.07121	7.185375	5.388971E-02			20	
2,2-Dichloropropane	1.336593	5.120614	5.3425	0.0276503			20	
2-Butanone	4.470198E-02	13.45601	5.39025	0.10413			SPCC (0.1)	
2-Chlorotoluene	2.609075	9.683838	11.152	3.338235E-02			20	
2-Hexanone	0.0477914	7.770146	8.7235	3.760743E-02			SPCC (0.1)	
4-Chlorotoluene	2.166081	8.026603	11.276	2.202936E-02			20	
4-Methyl-2-pentanone	7.071489E-02	6.745571	7.872625	6.147673E-02			SPCC (0.1)	
Acetone	0.1029164	14.62678	3.69925	9.755937E-02			SPCC (0.1)	
Acrolein	4.106104E-02	8.213542	3.542	0.1051263			20	
Acrylonitrile	0.1030886	8.985775	4.42075	8.241475E-02			20	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30023
Instrument: VOA No. 10
Calibration Date: 11/13/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	3.867295	5.961473	6.1845	1.863724E-02			SPCC (0.5)	
Bromobenzene	1.010382	7.871261	10.96562	2.371528E-02			20	
Bromochloromethane	0.5546638	6.635638	5.6175	6.159754E-02			20	
Bromodichloromethane	0.2548346	7.407525	7.325875	2.376526E-02			SPCC (0.2)	
Bromoform	6.821166E-02	8.967985	10.48425	1.865824E-02			SPCC (0.1)	
Bromomethane	0.3934499	33.71346	2.6465	0.1178845		0.9985315	SPCC (0.1)	
Carbon disulfide	2.421762	2.786638	3.8375	4.328812E-02			SPCC (0.1)	
Carbon tetrachloride	1.134902	8.250361	5.961375	3.775895E-02			SPCC (0.1)	
Chlorobenzene	0.694694	6.272974	9.5415	1.578779E-02			SPCC (0.5)	
Chloroethane	0.6669515	6.924552	2.762375	9.084165E-02			SPCC (0.1)	
Chloroform	1.454524	7.218369	5.676125	0.0314738			SPCC (0.2)	
Chloromethane	0.815465	9.149658	2.11625	0.1280819			SPCC (0.1)	
cis-1,2-Dichloroethylene	1.350556	8.646566	5.370875	0.0572978			SPCC (0.1)	
cis-1,3-Dichloropropylene	0.3490926	6.581658	7.746	2.522531E-02			SPCC (0.2)	
Cyclohexane	1.795318	5.417595	5.83325	2.221957E-02			SPCC (0.1)	
Dibromochloromethane	0.1454692	8.999173	8.942375	0.023576			SPCC (0.1)	
Dibromomethane	8.387346E-02	4.023995	7.194125	2.024872E-02			20	
Dichlorodifluoromethane	0.7492901	8.340477	1.881375	5.367423E-02			SPCC (0.1)	
Ethyl Benzene	1.263362	6.585365	9.61125	1.476849E-02			SPCC (0.1)	
Hexachlorobutadiene	0.1656709	5.004916	14.51025	1.622774E-02			20	
Isopropylbenzene	3.529169	8.89672	10.55562	1.084228E-02			SPCC (0.1)	
Methyl acetate	0.2206295	6.069689	4.335375	0.093104			SPCC (0.1)	
Methyl tert-butyl ether (MTBE)	1.357067	6.027833	4.334125	5.898096E-02			SPCC (0.1)	
Methylcyclohexane	0.5191845	6.490405	6.924	3.968931E-02			SPCC (0.1)	
Methylene chloride	0.9739835	3.661314	4.133125	0.0527159			SPCC (0.1)	
Naphthalene	0.5403382	4.998807	14.68462	2.422793E-02			20	
n-Butylbenzene	2.544573	7.197986	12.44037	7.298363E-03			20	
n-Propylbenzene	4.0777	8.690692	11.01062	7.514774E-03			20	
o-Xylene	0.9404569	6.708659	10.17475	2.804037E-02			SPCC (0.3)	
p- & m- Xylenes	0.9359828	7.322255	9.729375	0.0269442			SPCC (0.1)	
p-Diethylbenzene	1.375449	9.429349	12.40762	1.803794E-02			20	
p-Ethyltoluene	3.340405	9.045843	11.13313	0.0315766			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.04	-9.6	30.00
1,1,1-Trichloroethane	10.0	9.87	-1.3	30.00
1,1,2,2-Tetrachloroethane	10.0	10.2	2.1	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.2	2.1	30.00
1,1,2-Trichloroethane	10.0	9.60	-4.0	30.00
1,1-Dichloroethane	10.0	9.18	-8.2	30.00
1,1-Dichloroethylene	10.0	10.0	0.2	30.00
1,2,3-Trichlorobenzene	10.0	8.85	-11.5	30.00
1,2,3-Trichloropropane	10.0	10.0	0.2	30.00
1,2,4-Trichlorobenzene	10.0	9.01	-9.9	30.00
1,2,4-Trimethylbenzene	10.0	10.1	1.1	30.00
1,2-Dibromo-3-chloropropane	10.0	10.2	2.4	30.00
1,2-Dibromoethane	10.0	9.89	-1.1	30.00
1,2-Dichlorobenzene	10.0	9.60	-4.0	30.00
1,2-Dichloroethane	10.0	9.75	-2.5	30.00
1,2-Dichloropropane	10.0	9.75	-2.5	30.00
1,3,5-Trimethylbenzene	10.0	9.99	-0.1	30.00
1,3-Dichlorobenzene	10.0	9.49	-5.1	30.00
1,4-Dichlorobenzene	10.0	9.40	-6.0	30.00
1,4-Dioxane	210	173	-17.4	30.00
2-Butanone	10.0	9.03	-9.7	30.00
2-Hexanone	10.0	8.14	-18.6	30.00
4-Methyl-2-pentanone	10.0	9.01	-9.9	30.00
Acetone	10.0	16.2	61.8 *	30.00
Acrolein	10.0	11.1	10.6	30.00
Acrylonitrile	10.0	9.86	-1.4	30.00
Benzene	10.0	9.96	-0.4	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30015
Laboratory ID: S3K0401-SCV1
Sequence: S3K0401
Standard ID: S23K011

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.88	-1.2	30.00
sec-Butylbenzene	10.0	9.82	-1.8	30.00
Styrene	10.0	9.86	-1.4	30.00
tert-Butyl alcohol (TBA)	50.0	47.9	-4.2	30.00
tert-Butylbenzene	10.0	9.77	-2.3	30.00
Tetrachloroethylene	10.0	4.90	-51.0 *	30.00
Toluene	10.0	9.94	-0.6	30.00
trans-1,2-Dichloroethylene	10.0	9.65	-3.5	30.00
trans-1,3-Dichloropropylene	10.0	9.46	-5.4	30.00
trans-1,4-dichloro-2-butene	10.0	9.28	-7.2	30.00
Trichloroethylene	10.0	9.52	-4.8	30.00
Trichlorofluoromethane	10.0	10.9	8.8	30.00
Vinyl Chloride	10.0	10.8	7.8	30.00

* Values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30023
Laboratory ID: S3K1425-SCV1
Sequence: S3K1425
Standard ID: S23K113

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	9.38	-6.2	30.00
1,1,1-Trichloroethane	10.0	8.91	-10.9	30.00
1,1,2,2-Tetrachloroethane	10.0	10.8	7.9	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.75	-2.5	30.00
1,1,2-Trichloroethane	10.0	9.65	-3.5	30.00
1,1-Dichloroethane	10.0	8.84	-11.6	30.00
1,1-Dichloroethylene	10.0	9.62	-3.8	30.00
1,2,3-Trichlorobenzene	10.0	10.1	0.6	30.00
1,2,3-Trichloropropane	10.0	9.60	-4.0	30.00
1,2,4-Trichlorobenzene	10.0	9.67	-3.3	30.00
1,2,4-Trimethylbenzene	10.0	9.67	-3.3	30.00
1,2-Dibromo-3-chloropropane	10.0	10.4	4.3	30.00
1,2-Dibromoethane	10.0	9.93	-0.7	30.00
1,2-Dichlorobenzene	10.0	9.41	-5.9	30.00
1,2-Dichloroethane	10.0	9.60	-4.0	30.00
1,2-Dichloropropane	10.0	9.61	-3.9	30.00
1,3,5-Trimethylbenzene	10.0	9.63	-3.7	30.00
1,3-Dichlorobenzene	10.0	9.48	-5.2	30.00
1,4-Dichlorobenzene	10.0	9.35	-6.5	30.00
1,4-Dioxane	210	96.2	-54.2 *	30.00
2-Butanone	10.0	8.63	-13.7	30.00
2-Hexanone	10.0	9.06	-9.4	30.00
4-Methyl-2-pentanone	10.0	9.57	-4.3	30.00
Acetone	10.0	6.13	-38.7 *	30.00
Acrolein	10.0	10.9	9.3	30.00
Acrylonitrile	10.0	9.92	-0.8	30.00
Benzene	10.0	9.30	-7.0	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8260D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30023
Laboratory ID: S3K1425-SCV1
Sequence: S3K1425
Standard ID: S23K113

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DIFF	QC LIMIT
p-Isopropyltoluene	10.0	9.55	-4.5	30.00
sec-Butylbenzene	10.0	9.37	-6.3	30.00
Styrene	10.0	9.62	-3.8	30.00
tert-Butyl alcohol (TBA)	50.0	63.9	27.7	30.00
tert-Butylbenzene	10.0	9.26	-7.4	30.00
Tetrachloroethylene	10.0	5.21	-47.9 *	30.00
Toluene	10.0	9.56	-4.4	30.00
trans-1,2-Dichloroethylene	10.0	9.06	-9.4	30.00
trans-1,3-Dichloropropylene	10.0	9.43	-5.7	30.00
trans-1,4-dichloro-2-butene	10.0	10.0	0.2	30.00
Trichloroethylene	10.0	8.99	-10.1	30.00
Trichlorofluoromethane	10.0	9.75	-2.5	30.00
Vinyl Chloride	10.0	10.1	1.3	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021841.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2916	Injection Date:	11/28/23
Lab Sample ID:	S3K2916-CCV1	Injection Time:	09:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	9.59	0.2043132	0.1959423		-4.1	20	
1,1,1-Trichloroethane	A	10.0	9.68	1.31616	1.274434	0.1	-3.2	20	
1,1,2,2-Tetrachloroethane	A	10.0	10.6	0.2847887	0.3031061	0.3	6.4	20	
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	10.0	9.94	1.165737	1.158649	0.1	-0.6	20	
1,1,2-Trichloroethane	A	10.0	10.1	0.1249969	0.125792	0.1	0.6	20	
1,1-Dichloroethane	A	10.0	9.85	1.620439	1.596666	0.2	-1.5	20	
1,1-Dichloroethylene	A	10.0	10.2	1.201651	1.226665	0.1	2.1	20	
1,2,3-Trichlorobenzene	A	10.0	10.0	0.1856812	0.1862705		0.3	20	
1,2,3-Trichloropropane	A	10.0	9.97	8.673113E-02	8.643297E-02		-0.3	20	
1,2,4-Trichlorobenzene	A	10.0	10.2	0.3226344	0.3274838	0.2	1.5	20	
1,2,4-Trimethylbenzene	A	10.0	9.83	2.470927	2.428174		-1.7	20	
1,2-Dibromo-3-chloropropane	A	10.0	10.2	3.609697E-02	3.675276E-02	0.05	1.8	20	
1,2-Dibromoethane	A	10.0	10.3	0.1114937	0.1145968	0.1	2.8	20	
1,2-Dichlorobenzene	A	10.0	9.73	0.9558958	0.9299784	0.4	-2.7	20	
1,2-Dichloroethane	A	10.0	10.5	0.6602432	0.6939201	0.1	5.1	20	
1,2-Dichloropropane	A	10.0	10.0	0.2347168	0.2356373	0.1	0.4	20	
1,3,5-Trimethylbenzene	A	10.0	9.85	2.565678	2.526477		-1.5	20	
1,3-Dichlorobenzene	A	10.0	9.74	1.235505	1.203757	0.6	-2.6	20	
1,4-Dichlorobenzene	A	10.0	9.62	1.202635	1.156981	0.5	-3.8	20	
1,4-Dioxane	A	200	158	7.185599E-04	5.680663E-04		-20.9	20	*
2-Butanone	A	10.0	9.53	4.470198E-02	4.257898E-02	0.1	-4.7	20	
2-Hexanone	A	10.0	10.7	0.047791	5.130179E-02	0.1	7.3	20	
4-Methyl-2-pentanone	A	10.0	10.8	7.071489E-02	7.612211E-02	0.1	7.6	20	
Acetone	A	10.0	10.4	0.1029164	0.1072401	0.1	4.2	20	
Acrolein	A	10.0	17.1	4.106104E-02	0.0703557		71.3	20	*
Acrylonitrile	A	10.0	10.3	0.1030886	0.1057281		2.6	20	
Benzene	A	10.0	9.56	3.867295	3.697413	0.5	-4.4	20	
Bromochloromethane	A	10.0	10.5	0.5546638	0.5823574		5.0	20	
Bromodichloromethane	A	10.0	10.3	0.2548346	0.2617769	0.2	2.7	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021841.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2916	Injection Date:	11/28/23
Lab Sample ID:	S3K2916-CCV1	Injection Time:	09:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	9.96	6.821166E-02	6.791521E-02	0.1	-0.4	20	
Bromomethane	A	10.0	7.57	0.3934499	0.2976859	0.1	-24.3	20	*
Carbon disulfide	A	10.0	10.1	2.421762	2.440214	0.1	0.8	20	
Carbon tetrachloride	A	10.0	9.67	1.134902	1.096976	0.1	-3.3	20	
Chlorobenzene	A	10.0	9.60	0.694694	0.6671022	0.5	-4.0	20	
Chloroethane	A	10.0	9.81	0.6669515	0.6541117	0.1	-1.9	20	
Chloroform	A	10.0	9.57	1.454524	1.391454	0.2	-4.3	20	
Chloromethane	A	10.0	10.7	0.815465	0.8757719	0.1	7.4	20	
cis-1,2-Dichloroethylene	A	10.0	10.0	1.350556	1.350991	0.1	0.03	20	
cis-1,3-Dichloropropylene	A	10.0	10.2	0.3490926	0.3546004	0.2	1.6	20	
Cyclohexane	A	10.0	9.82	1.795318	1.762764	0.1	-1.8	20	
Dibromochloromethane	A	10.0	10.0	0.1454692	0.146088	0.1	0.4	20	
Dibromomethane	A	10.0	10.2	8.387346E-02	8.519224E-02		1.6	20	
Dichlorodifluoromethane	A	10.0	11.3	0.7492901	0.8444775	0.1	12.7	20	
Ethyl Benzene	A	10.0	9.85	1.263362	1.244552	0.1	-1.5	20	
Hexachlorobutadiene	A	10.0	10.1	0.1656709	0.1671858		0.9	20	
Isopropylbenzene	A	10.0	9.53	3.529169	3.36287	0.1	-4.7	20	
Methyl acetate	A	10.0	11.0	0.2206295	0.2418301	0.1	9.6	20	
Methyl tert-butyl ether (MTBE)	A	10.0	10.5	1.357067	1.42541	0.1	5.0	20	
Methylcyclohexane	A	10.0	10.0	0.5191845	0.5189739	0.1	-0.04	20	
Methylene chloride	A	10.0	9.96	0.9739835	0.9698685	0.1	-0.4	20	
n-Butylbenzene	A	10.0	10.4	2.544573	2.646874		4.0	20	
n-Propylbenzene	A	10.0	9.89	4.0777	4.03146		-1.1	20	
o-Xylene	A	10.0	9.98	0.9404569	0.938923	0.3	-0.2	20	
p- & m- Xylenes	A	20.0	20.3	0.9359828	0.9516933	0.1	1.7	20	
p-Isopropyltoluene	A	10.0	9.82	2.733067	2.682675		-1.8	20	
sec-Butylbenzene	A	10.0	9.93	3.349985	3.326462		-0.7	20	
Styrene	A	10.0	10.0	0.7440062	0.7454269	0.3	0.2	20	
tert-Butyl alcohol (TBA)	A	50.0	62.2	2.141017E-02	2.355863E-02		24.3	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	VOA No. 10	Calibration:	SK30023
Lab File ID:	V10C021841.D	Calibration Date:	11/13/23 08:00
Sequence:	S3K2916	Injection Date:	11/28/23
Lab Sample ID:	S3K2916-CCV1	Injection Time:	09:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	9.59	2.365823	2.269293		-4.1	20	
Tetrachloroethylene	A	10.0	5.71	0.5061744	0.2891961	0.2	-42.9	20	*
Toluene	A	10.0	9.80	1.12352	1.101189	0.4	-2.0	20	
trans-1,2-Dichloroethylene	A	10.0	9.94	1.227463	1.21971	0.1	-0.6	20	
trans-1,3-Dichloropropylene	A	10.0	10.5	0.2453267	0.2570651	0.1	4.8	20	
trans-1,4-dichloro-2-butene	A	10.0	10.1	0.3541428	0.3572442		0.9	20	
Trichloroethylene	A	10.0	9.36	0.266782	0.2497294	0.2	-6.4	20	
Trichlorofluoromethane	A	10.0	9.94	1.165737	1.158649	0.1	-0.6	20	
Vinyl Chloride	A	10.0	10.4	1.037434	1.07424	0.1	3.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841527.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K3005	Injection Date:	11/29/23
Lab Sample ID:	S3K3005-CCV1	Injection Time:	10:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,1,2-Tetrachloroethane	A	10.0	10.3	0.252487	0.2252287		2.7	20
1,1,1-Trichloroethane	A	10.0	10.2	1.676194	1.572362	0.1	-6.2	20
1,1,2,2-Tetrachloroethane	A	10.0	11.1	0.4083268	0.3797638	0.3	-7.0	20
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	10.0	10.0	0.9052299	0.6237178	0.1	-31.1	20 *
1,1,2-Trichloroethane	A	10.0	11.0	0.1638889	0.1455235	0.1	-11.2	20
1,1-Dichloroethane	A	10.0	9.78	1.71564	1.467515	0.2	-14.5	20
1,1-Dichloroethylene	A	10.0	10.3	1.319827	0.9735312	0.1	-26.2	20 *
1,2,3-Trichlorobenzene	A	10.0	10.9	0.3191153	0.2610401		-18.2	20
1,2,3-Trichloropropane	A	10.0	10.3	0.1229479	0.1145046		-6.9	20
1,2,4-Trichlorobenzene	A	10.0	10.9	0.4262647	0.344647	0.2	-19.1	20
1,2,4-Trimethylbenzene	A	10.0	11.6	2.304133	2.088328		-9.4	20
1,2-Dibromo-3-chloropropane	A	10.0	11.1	6.500658E-02	0.0649135	0.05	-0.1	20
1,2-Dibromoethane	A	10.0	9.95	0.1535879	0.1409557	0.1	-8.2	20
1,2-Dichlorobenzene	A	10.0	10.7	1.048737	0.9375666	0.4	-10.6	20
1,2-Dichloroethane	A	10.0	10.6	0.9439081	1.0001	0.1	6.0	20
1,2-Dichloropropane	A	10.0	11.6	0.237461	0.1921222	0.1	-19.1	20
1,3,5-Trimethylbenzene	A	10.0	12.2	2.365377	2.130212		-9.9	20
1,3-Dichlorobenzene	A	10.0	10.3	1.215782	1.062751	0.6	-12.6	20
1,4-Dichlorobenzene	A	10.0	10.8	1.195445	1.029337	0.5	-13.9	20
1,4-Dioxane	A	200	159	1.12822E-03	9.516486E-04		-20.3	20 *
2-Butanone	A	10.0	9.01	6.586937E-02	5.948464E-02	0.1	-9.9	20
2-Hexanone	A	10.0	9.82	9.722319E-02	0.0795747	0.1 *	-18.2	20
4-Methyl-2-pentanone	A	10.0	11.2	0.1237697	0.1025511	0.1	-17.1	20
Acetone	A	10.0	8.16	0.2617927	0.1193831	0.1	-18.4	20
Acrolein	A	10.0	14.4	5.997976E-02	6.152686E-02		2.6	20
Acrylonitrile	A	10.0	8.32	0.1307435	9.428913E-02		-27.9	20 *
Benzene	A	10.0	11.2	3.916385	3.540774	0.5	-9.6	20
Bromochloromethane	A	10.0	11.0	0.5664581	0.544812		-3.8	20
Bromodichloromethane	A	10.0	10.6	0.3228941	0.2947228	0.2	-8.7	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841527.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K3005	Injection Date:	11/29/23
Lab Sample ID:	S3K3005-CCV1	Injection Time:	10:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Bromoform	A	10.0	9.60	0.104662	9.513182E-02	0.1	-4.0	20
Bromomethane	A	10.0	9.68	0.9829663	0.7063476	0.1	-28.1	20 *
Carbon disulfide	A	10.0	9.94	2.28485	1.515687	0.1	-33.7	20 *
Carbon tetrachloride	A	10.0	10.4	1.471433	1.34372	0.1	-8.7	20
Chlorobenzene	A	10.0	10.9	0.7242045	0.6602497	0.5	-8.8	20
Chloroethane	A	10.0	11.5	0.9008924	1.05783	0.1	17.4	20
Chloroform	A	10.0	11.1	1.677331	1.533526	0.2	-8.6	20
Chloromethane	A	10.0	10.1	1.118135	0.7561083	0.1	-32.4	20 *
cis-1,2-Dichloroethylene	A	10.0	11.4	1.45028	1.336933	0.1	-7.8	20
cis-1,3-Dichloropropylene	A	10.0	10.4	0.3896441	0.340578	0.2	-12.6	20
Cyclohexane	A	10.0	12.1	1.69539	1.440038	0.1	-15.1	20
Dibromochloromethane	A	10.0	9.96	0.2044674	0.183155	0.1	-10.4	20
Dibromomethane	A	10.0	10.1	0.1124353	0.1064333		-5.3	20
Dichlorodifluoromethane	A	10.0	8.22	0.9597646	0.5805642	0.1	-39.5	20 *
Ethyl Benzene	A	10.0	10.3	1.349986	1.262591	0.1	-6.5	20
Hexachlorobutadiene	A	10.0	13.4	0.1196686	9.437169E-02		-21.1	20 *
Isopropylbenzene	A	10.0	12.7	3.043018	2.688777	0.1	-11.6	20
Methyl acetate	A	10.0	8.47	0.3475983	0.2285217	0.1	-15.3	20
Methyl tert-butyl ether (MTBE)	A	10.0	8.67	2.055289	1.666604	0.1	-18.9	20
Methylcyclohexane	A	10.0	11.9	0.4933143	0.404779	0.1	-17.9	20
Methylene chloride	A	10.0	9.87	0.9924044	0.7468316	0.1	-24.7	20 *
n-Butylbenzene	A	10.0	10.7	0.4197883	0.356349		-15.1	20
n-Propylbenzene	A	10.0	12.9	3.517517	3.131078		-11.0	20
o-Xylene	A	10.0	9.96	1.0445	0.9995771	0.3	-4.3	20
p- & m- Xylenes	A	20.0	21.0	1.073196	1.060735	0.1	-1.2	20
p-Isopropyltoluene	A	10.0	11.1	2.33792	2.03914		-12.8	20
sec-Butylbenzene	A	10.0	13.7	2.778702	2.469207		-11.1	20
Styrene	A	10.0	9.59	0.8082976	0.7767355	0.3	-3.9	20
tert-Butyl alcohol (TBA)	A	50.0	44.1	5.388464E-02	4.429614E-02		-17.8	20

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8260D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	VOA No. 8	Calibration:	SK30015
Lab File ID:	V841527.D	Calibration Date:	11/03/23 08:21
Sequence:	S3K3005	Injection Date:	11/29/23
Lab Sample ID:	S3K3005-CCV1	Injection Time:	10:37

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
tert-Butylbenzene	A	10.0	12.6	2.025551	1.734823		-14.4	20	
Tetrachloroethylene	A	10.0	11.1	0.4668419	0.2974982	0.2	10.9	20	
Toluene	A	10.0	11.4	1.191132	1.104272	0.4	-7.3	20	
trans-1,2-Dichloroethylene	A	10.0	9.34	1.284921	1.031047	0.1	-19.8	20	
trans-1,3-Dichloropropylene	A	10.0	10.1	0.3172758	0.2982598	0.1	-6.0	20	
trans-1,4-dichloro-2-butene	A	10.0	11.9	0.3803903	0.3811285		0.2	20	
Trichloroethylene	A	10.0	10.9	0.2917918	0.2363402	0.2	-19.0	20	
Trichlorofluoromethane	A	10.0	10.9	1.980224	2.848969	0.1	43.9	20	*
Vinyl Chloride	A	10.0	10.4	1.220025	1.044502	0.1	-14.4	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31716	Laboratory ID:	BK31716-BS1
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Biphenyl	25.0	16.3	65.0	33 - 95
1,2,4,5-Tetrachlorobenzene	25.0	17.7	70.6	26 - 120
1,2,4-Trichlorobenzene	25.0	19.0	76.0	20 - 118
1,2-Dichlorobenzene	25.0	14.7	59.0	29 - 111
1,2-Diphenylhydrazine (as Azobenzene)	25.0	15.1	60.3	16 - 141
1,3-Dichlorobenzene	25.0	14.3	57.3	23 - 117
1,4-Dichlorobenzene	25.0	14.7	58.9	30 - 105
2,3,4,6-Tetrachlorophenol	25.0	17.8	71.0	30 - 130
2,4,5-Trichlorophenol	25.0	20.3	81.3	32 - 114
2,4,6-Trichlorophenol	25.0	19.9	79.4	35 - 118
2,4-Dichlorophenol	25.0	19.6	78.4	25 - 116
2,4-Dimethylphenol	25.0	11.5	46.0	15 - 116
2,4-Dinitrophenol	25.0	37.2	149	10 - 170
2,4-Dinitrotoluene	25.0	24.3	97.2	41 - 128
2,6-Dinitrotoluene	25.0	23.3	93.2	45 - 116
2-Chloronaphthalene	25.0	15.3	61.2	33 - 112
2-Chlorophenol	25.0	13.6	54.2	15 - 120
2-Methylnaphthalene	25.0	17.3	69.1	24 - 118
2-Methylphenol	25.0	12.7	50.6	10 - 110
2-Nitroaniline	25.0	19.9	79.8	34 - 129
2-Nitrophenol	25.0	22.0	87.9	28 - 118
3- & 4-Methylphenols	25.0	10.4	41.6	10 - 107
3,3-Dichlorobenzidine	25.0	14.9	59.5	15 - 187
3-Nitroaniline	25.0	13.4	53.8	24 - 134
4,6-Dinitro-2-methylphenol	25.0	38.5	154 *	10 - 153
4-Bromophenyl phenyl ether	25.0	21.6	86.2	34 - 120
4-Chloro-3-methylphenol	25.0	20.4	81.4	20 - 120
4-Chloroaniline	25.0	8.93	35.7	10 - 147
4-Chlorophenyl phenyl ether	25.0	19.4	77.5	27 - 121
4-Nitroaniline	25.0	14.6	58.5	13 - 134

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31716	Laboratory ID:	BK31716-BS1
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Nitrophenol	25.0	10.6	42.4	10 - 131
Acetophenone	25.0	17.8	71.0	25 - 110
Aniline	25.0	4.29	17.2	10 - 117
Benzaldehyde	25.0	11.6	46.4	29 - 117
Benzoic acid	25.0	3.63	14.5 *	30 - 130
Benzyl alcohol	25.0	10.1	40.4	10 - 117
Benzyl butyl phthalate	25.0	12.8	51.1	29 - 133
Bis(2-chloroethoxy)methane	25.0	19.0	76.1	10 - 154
Bis(2-chloroethyl)ether	25.0	16.0	64.2	17 - 125
Bis(2-chloroisopropyl)ether	25.0	15.7	62.7	10 - 139
Caprolactam	25.0	2.85	11.4	10 - 137
Carbazole	25.0	16.1	64.5	42 - 126
Dibenzofuran	25.0	16.7	66.7	36 - 113
Diethyl phthalate	25.0	16.1	64.2	38 - 115
Dimethyl phthalate	25.0	17.1	68.5	38 - 129
Di-n-butyl phthalate	25.0	14.9	59.8	31 - 120
Di-n-octyl phthalate	25.0	13.3	53.1	21 - 149
Hexachlorocyclopentadiene	25.0	6.05	24.2	10 - 130
Isophorone	25.0	20.4	81.6	25 - 127
N-nitroso-di-n-propylamine	25.0	18.4	73.8	26 - 122
N-Nitrosodiphenylamine	25.0	17.9	71.5	23 - 149
Phenol	25.0	6.03	24.1	10 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31717	Laboratory ID:	BK31717-BS1
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
4-Nitrophenol	25.0	8.61	34.4	10 - 131
Acetophenone	25.0	24.2	96.6	25 - 110
Aniline	25.0	3.48	13.9	10 - 117
Benzaldehyde	25.0	23.9	95.7	29 - 117
Benzoic acid	25.0	8.59	34.4	30 - 130
Benzyl alcohol	25.0	14.8	59.4	10 - 117
Benzyl butyl phthalate	25.0	23.1	92.4	29 - 133
Bis(2-chloroethoxy)methane	25.0	24.8	99.4	10 - 154
Bis(2-chloroethyl)ether	25.0	23.0	92.0	17 - 125
Bis(2-chloroisopropyl)ether	25.0	25.7	103	10 - 139
Caprolactam	25.0	4.36	17.4	10 - 137
Carbazole	25.0	21.2	84.8	42 - 126
Dibenzofuran	25.0	20.8	83.2	36 - 113
Diethyl phthalate	25.0	20.9	83.5	38 - 115
Dimethyl phthalate	25.0	20.9	83.7	38 - 129
Di-n-butyl phthalate	25.0	21.7	86.9	31 - 120
Di-n-octyl phthalate	25.0	24.6	98.5	21 - 149
Hexachlorocyclopentadiene	25.0	ND	*	10 - 130
Isophorone	25.0	26.0	104	25 - 127
N-nitroso-di-n-propylamine	25.0	22.2	88.8	26 - 122
N-Nitrosodiphenylamine	25.0	21.1	84.4	23 - 149
Phenol	25.0	8.22	32.9	10 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31717	Laboratory ID:	BK31717-BSD1
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Nitrophenol	25.0	8.58	34.3	0.349	20	10 - 131
Acetophenone	25.0	23.5	94.2	2.56	20	25 - 110
Aniline	25.0	5.33	21.3	42.0 *	20	10 - 117
Benzaldehyde	25.0	24.1	96.4	0.666	20	29 - 117
Benzoic acid	25.0	6.77	27.1 *	23.7 *	20	30 - 130
Benzyl alcohol	25.0	14.4	57.6	3.08	20	10 - 117
Benzyl butyl phthalate	25.0	23.3	93.2	0.819	20	29 - 133
Bis(2-chloroethoxy)methane	25.0	24.6	98.4	1.05	20	10 - 154
Bis(2-chloroethyl)ether	25.0	23.0	92.1	0.174	20	17 - 125
Bis(2-chloroisopropyl)ether	25.0	25.7	103	0.117	20	10 - 139
Caprolactam	25.0	4.25	17.0	2.56	20	10 - 137
Carbazole	25.0	20.5	81.9	3.45	20	42 - 126
Dibenzofuran	25.0	20.6	82.5	0.869	20	36 - 113
Diethyl phthalate	25.0	20.6	82.2	1.50	20	38 - 115
Dimethyl phthalate	25.0	20.8	83.3	0.527	20	38 - 129
Di-n-butyl phthalate	25.0	21.8	87.3	0.459	20	31 - 120
Di-n-octyl phthalate	25.0	25.0	99.9	1.45	20	21 - 149
Hexachlorocyclopentadiene	25.0	ND	*		20	10 - 130
Isophorone	25.0	25.8	103	0.502	20	25 - 127
N-nitroso-di-n-propylamine	25.0	21.4	85.6	3.76	20	26 - 122
N-Nitrosodiphenylamine	25.0	20.8	83.2	1.38	20	23 - 149
Phenol	25.0	7.84	31.4	4.73	20	10 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Biphenyl	0.58448	3.544253	6.80375	0.1825872			SPCC (0.01)	
1,2,4,5-Tetrachlorobenzene	0.4675845	4.442957	6.562125	0.1747262			SPCC (0.01)	
1,2,4-Trichlorobenzene	0.2812595	7.114969	5.751375	0.1612923			20	
1,2-Dichlorobenzene	1.482179	4.783369	4.920125	0.1988233			20	
1,2-Diphenylhydrazine (as Azobenzene)	0.9368827	4.714477	8.27425	0.1617629			20	
1,3-Dichlorobenzene	1.544358	5.062963	4.723	0.2029172			20	
1,4-Dichlorobenzene	1.579991	4.492532	4.75875	0.1866359			20	
1-Methylnaphthalene	0.5808337	6.042336	6.474375	0.1788504			20	
2,3,4,6-Tetrachlorophenol	0.1299258	10.02989	7.845125	0.2005175			SPCC (0.01)	
2,4,5-Trichlorophenol	0.3378067	7.844157	6.690125	0.1713612			SPCC (0.2)	
2,4,6-Trichlorophenol	0.2950052	8.353011	6.653875	0.1835595			SPCC (0.2)	
2,4-Dichlorophenol	0.2488906	4.769764	5.679375	0.1569845			SPCC (0.2)	
2,4-Dimethylphenol	0.2837471	5.474553	5.518875	0.1377068			SPCC (0.2)	
2,4-Dinitrophenol	6.672327E-02	42.99398	7.518	0.1746261			SPCC (0.01)	*
2,4-Dinitrotoluene	0.3189717	21.25647	7.692375	0.1737629			SPCC (0.2)	*
2,6-Dinitrotoluene	0.2444813	18.0875	7.244375	0.1841868			SPCC (0.2)	
2-Chloronaphthalene	1.125321	4.591738	6.824875	0.1717545			SPCC (0.8)	
2-Chlorophenol	1.383042	4.584219	4.606875	0.2093262			SPCC (0.8)	
2-Methylnaphthalene	0.6576992	5.985113	6.372375	0.1672699			SPCC (0.4)	
2-Methylphenol	1.127103	3.634443	4.983375	0.1500613			SPCC (0.7)	
2-Nitroaniline	0.3470772	15.25153	6.965875	0.1845732			SPCC (0.01)	
2-Nitrophenol	0.1410626	9.017735	5.501875	0.1817565			SPCC (0.1)	
3- & 4-Methylphenols	1.710722	3.693593	5.096125	0.1983575			SPCC (0.6)	
3,3-Dichlorobenzidine	0.476604	11.07177	14.02963	0.1094211			SPCC (0.01)	
3-Nitroaniline	0.3118217	12.53309	7.405125	0.1771377			SPCC (0.01)	
4,6-Dinitro-2-methylphenol	6.395164E-02	39.91615	8.211	0.1693039			SPCC (0.01)	*
4-Bromophenyl phenyl ether	0.1778004	4.172418	8.757125	0.1799693			SPCC (0.1)	
4-Chloro-3-methylphenol	0.2888503	4.846186	6.248125	0.1616488			SPCC (0.2)	
4-Chloroaniline	0.4199863	5.011689	5.864875	0.1927784			SPCC (0.01)	
4-Chlorophenyl phenyl ether	0.5941548	2.569765	8.06125	0.1952104			SPCC (0.4)	
4-Nitroaniline	0.3203372	12.04705	8.171	0.1791622			SPCC (0.01)	
4-Nitrophenol	0.271315	13.01804	7.564375	0.1601309			SPCC (0.01)	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30004
Instrument: BNA #7
Calibration Date: 10/25/23 00:39

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.095571	3.157927	7.464125	0.1709655			SPCC (0.9)	
Acenaphthylene	1.90149	3.653924	7.262	0.1807059			SPCC (0.9)	
Acetophenone	2.127855	4.954929	5.10125	0.1888992			SPCC (0.01)	
Alpha Terpineol	0.2964362	7.414549	5.78275	0.1547727			20	
Aniline	2.054586	3.708684	4.523125	0.1660573			SPCC ()	
Anthracene	1.077212	3.930975	9.517	0.1251185			SPCC (0.7)	
Atrazine	0.1966296	5.87485	9.0785	0.1586969			SPCC (0.01)	
Benzaldehyde	1.161117	6.931282	4.408875	0.2187847			SPCC (0.01)	
Benzidine	0.5753458	12.91901	11.466	0.1323274			20	
Benzo(a)anthracene	1.29345	3.823915	13.95187	0.1203029			SPCC (0.8)	
Benzo(a)pyrene	1.167304	7.385991	16.83613	9.745885E-02			SPCC (0.7)	
Benzo(b)fluoranthene	1.217679	5.311605	16.20925	9.631515E-02			SPCC (0.7)	
Benzo(g,h,i)perylene	1.015063	7.597123	19.3115	8.603334E-02			SPCC (0.5)	
Benzo(k)fluoranthene	1.291905	4.993503	16.2565	0.1066804			SPCC (0.7)	
Benzoic acid	0.1475029	36.11995	5.595875	0.2953773			20	*
Benzyl alcohol	0.9399217	3.854087	4.882375	0.1821055			20	
Benzyl butyl phthalate	0.6216166	11.49739	13.0195	0.1101736			20	
Bis(2-chloroethoxy)methane	0.406978	7.318958	5.597125	0.1958425			SPCC (0.3)	
Bis(2-chloroethyl)ether	1.43603	3.86877	4.569	0.1734465			SPCC (0.7)	
Bis(2-chloroisopropyl)ether	1.988478	5.61948	5.002375	0.1944762			SPCC (0.01)	
Bis(2-ethylhexyl)phthalate	0.8344516	11.2304	14.35263	0.1012992			20	
Caprolactam	0.1001433	10.49855	6.13475	0.2792034			SPCC (0.01)	
Carbazole	1.023745	3.709349	9.727125	0.1186385			SPCC (0.01)	
Chrysene	1.354546	3.861438	14.0435	0.1108449			SPCC (0.7)	
Dibenzo(a,h)anthracene	0.9728928	11.21524	18.93637	0.0759342			SPCC (0.4)	
Dibenzofuran	1.632596	3.635415	7.64525	0.1840666			SPCC (0.8)	
Diethyl phthalate	1.353198	3.547448	7.972375	0.1753444			SPCC (0.01)	
Dimethyl phthalate	1.303882	3.345505	7.152875	0.1742905			SPCC (0.01)	
Di-n-butyl phthalate	1.159312	5.197642	10.28138	0.1303243			SPCC (0.01)	
Di-n-octyl phthalate	1.255997	20.74487	15.66737	8.944153E-02			SPCC (0.01)	*
Diphenylamine	0.5609292	5.133152	8.235	0.1697666			20	
Fluoranthene	1.122611	3.768362	11.17225	0.124381			SPCC (0.6)	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
1,2,4-Trichlorobenzene	30.0	30.4	1.5	30.00
1,2-Dichlorobenzene	30.0	28.5	-5.1	30.00
1,2-Diphenylhydrazine (as Azobenzene)	30.0	28.7	-4.2	30.00
1,3-Dichlorobenzene	30.0	28.4	-5.3	30.00
1,4-Dichlorobenzene	30.0	28.8	-4.1	30.00
2,3,4,6-Tetrachlorophenol	30.0	35.9	19.7	30.00
2,4,5-Trichlorophenol	30.0	30.7	2.3	30.00
2,4,6-Trichlorophenol	30.0	31.7	5.5	30.00
2,4-Dichlorophenol	30.0	31.2	4.0	30.00
2,4-Dimethylphenol	30.0	23.1	-23.0	30.00
2,4-Dinitrophenol	30.0	45.8	52.6 *	30.00
2,4-Dinitrotoluene	30.0	35.5	18.5	30.00
2,6-Dinitrotoluene	30.0	36.2	20.7	30.00
2-Chloronaphthalene	30.0	28.9	-3.6	30.00
2-Chlorophenol	30.0	30.0	0.1	30.00
2-Methylnaphthalene	30.0	29.8	-0.6	30.00
2-Methylphenol	30.0	28.8	-3.8	30.00
2-Nitroaniline	30.0	33.7	12.4	30.00
2-Nitrophenol	30.0	35.5	18.4	30.00
3- & 4-Methylphenols	30.0	25.5	-14.9	30.00
3-Nitroaniline	30.0	32.8	9.5	30.00
4,6-Dinitro-2-methylphenol	30.0	39.9	33.0 *	30.00
4-Bromophenyl phenyl ether	30.0	28.6	-4.8	30.00
4-Chloro-3-methylphenol	30.0	31.6	5.2	30.00
4-Chloroaniline	30.0	28.6	-4.6	30.00
4-Chlorophenyl phenyl ether	30.0	28.9	-3.6	30.00
4-Nitroaniline	30.0	31.8	5.9	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SK30004
Laboratory ID: S3K0237-SCV1
Sequence: S3K0237
Standard ID: S23H366

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
4-Nitrophenol	30.0	33.3	10.9	30.00
Aniline	30.0	26.1	-13.0	30.00
Benzyl alcohol	30.0	29.3	-2.3	30.00
Benzyl butyl phthalate	30.0	30.9	2.9	30.00
Bis(2-chloroethoxy)methane	30.0	30.0	-0.1	30.00
Bis(2-chloroethyl)ether	30.0	28.4	-5.4	30.00
Bis(2-chloroisopropyl)ether	30.0	28.3	-5.6	30.00
Carbazole	30.0	29.4	-2.1	30.00
Dibenzofuran	30.0	28.6	-4.5	30.00
Diethyl phthalate	30.0	29.0	-3.2	30.00
Dimethyl phthalate	30.0	28.9	-3.6	30.00
Di-n-butyl phthalate	30.0	30.3	0.9	30.00
Di-n-octyl phthalate	30.0	34.2	13.9	30.00
Hexachlorocyclopentadiene	30.0	17.7	-40.9 *	30.00
Isophorone	30.0	31.2	4.2	30.00
N-nitroso-di-n-propylamine	30.0	28.2	-5.9	30.00
N-Nitrosodiphenylamine	30.0	33.5	11.7	30.00
Phenol	30.0	28.8	-3.9	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351905.D	Calibration Date:	10/25/23 00:39
Sequence:	S3L0135	Injection Date:	12/01/23
Lab Sample ID:	S3L0135-CCV1	Injection Time:	08:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Biphenyl	A	30.0	29.9	0.58448	0.583129	0.01	-0.2	20	
1,2,4,5-Tetrachlorobenzene	A	30.0	31.8	0.4675845	0.4956207	0.01	6.0	20	
1,2,4-Trichlorobenzene	A	30.0	29.8	0.2812595	0.2793329		-0.7	20	
1,2-Dichlorobenzene	A	30.0	29.1	1.482179	1.437519		-3.0	20	
1,2-Diphenylhydrazine (as Azobenzene)	A	30.0	25.8	0.9368827	0.804196		-14.2	20	
1,3-Dichlorobenzene	A	30.0	28.6	1.544358	1.469885		-4.8	20	
1,4-Dichlorobenzene	A	30.0	28.7	1.579991	1.510647		-4.4	20	
2,3,4,6-Tetrachlorophenol	A	30.0	31.2	0.1299258	0.1351975	0.01	4.1	20	
2,4,5-Trichlorophenol	A	30.0	33.2	0.3378067	0.3737095	0.2	10.6	20	
2,4,6-Trichlorophenol	A	30.0	34.7	0.2950052	0.3410091	0.2	15.6	20	
2,4-Dichlorophenol	A	30.0	30.9	0.2488906	0.2564026	0.2	3.0	20	
2,4-Dimethylphenol	A	30.0	26.5	0.2837471	0.2510556	0.2	-11.5	20	
2,4-Dinitrophenol	A	30.0	51.2	6.672327E-02	0.1139856	0.01	70.8	20	*
2,4-Dinitrotoluene	A	30.0	39.9	0.3189717	0.4247055	0.2	33.1	20	*
2,6-Dinitrotoluene	A	30.0	39.7	0.2444813	0.3238064	0.2	32.4	20	*
2-Chloronaphthalene	A	30.0	29.7	1.125321	1.115078	0.8	-0.9	20	
2-Chlorophenol	A	30.0	29.4	1.383042	1.355704	0.8	-2.0	20	
2-Methylnaphthalene	A	30.0	29.3	0.6576992	0.6417514	0.4	-2.4	20	
2-Methylphenol	A	30.0	27.3	1.127103	1.025375	0.7	-9.0	20	
2-Nitroaniline	A	30.0	36.5	0.3470772	0.4218622	0.01	21.5	20	*
2-Nitrophenol	A	30.0	35.7	0.1410626	0.167749	0.1	18.9	20	
3- & 4-Methylphenols	A	30.0	27.9	1.710722	1.589476	0.6	-7.1	20	
3,3-Dichlorobenzidine	A	30.0	31.9	0.476604	0.5064742	0.01	6.3	20	
3-Nitroaniline	A	30.0	35.2	0.3118217	0.3663885	0.01	17.5	20	
4,6-Dinitro-2-methylphenol	A	30.0	54.6	6.395164E-02	0.1164763	0.01	82.1	20	*
4-Bromophenyl phenyl ether	A	30.0	34.5	0.1778004	0.2045052	0.1	15.0	20	
4-Chloro-3-methylphenol	A	30.0	28.2	0.2888503	0.2714749	0.2	-6.0	20	
4-Chloroaniline	A	30.0	28.1	0.4199863	0.3932754	0.01	-6.4	20	
4-Chlorophenyl phenyl ether	A	30.0	32.6	0.5941548	0.6455257	0.4	8.6	20	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	BNA #7	Calibration:	SK30004
Lab File ID:	E70351905.D	Calibration Date:	10/25/23 00:39
Sequence:	S3L0135	Injection Date:	12/01/23
Lab Sample ID:	S3L0135-CCV1	Injection Time:	08:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitroaniline	A	30.0	33.8	0.3203372	0.3610418	0.01	12.7	20	
4-Nitrophenol	A	30.0	24.7	0.271315	0.2232016	0.01	-17.7	20	
Acetophenone	A	30.0	26.4	2.127855	1.870285	0.01	-12.1	20	
Aniline	A	30.0	25.4	2.054586	1.740971		-15.3	20	
Benzaldehyde	A	30.0	24.5	1.161117	0.9490531	0.01	-18.3	20	
Benzidine	A	30.0	25.7	0.5753458	0.4922046		-14.5	20	
Benzoic acid	A	30.0	22.0	0.1475029	0.125285		-15.1	20	
Benzyl alcohol	A	30.0	28.8	0.9399217	0.9013257		-4.1	20	
Benzyl butyl phthalate	A	30.0	35.0	0.6216166	0.7250215		16.6	20	
Bis(2-chloroethoxy)methane	A	30.0	26.0	0.406978	0.3520082	0.3	-13.5	20	
Bis(2-chloroethyl)ether	A	30.0	26.0	1.43603	1.244719	0.7	-13.3	20	
Bis(2-chloroisopropyl)ether	A	30.0	18.6	1.988478	1.230294	0.01	-38.1	20	*
Caprolactam	A	30.0	34.8	0.1001433	0.1162391	0.01	16.1	20	
Carbazole	A	30.0	30.7	1.023745	1.048142	0.01	2.4	20	
Dibenzofuran	A	30.0	31.0	1.632596	1.685411	0.8	3.2	20	
Diethyl phthalate	A	30.0	31.1	1.353198	1.403688	0.01	3.7	20	
Dimethyl phthalate	A	30.0	30.5	1.303882	1.326599	0.01	1.7	20	
Di-n-butyl phthalate	A	30.0	32.0	1.159312	1.236582	0.01	6.7	20	
Di-n-octyl phthalate	A	30.0	39.7	1.255997	1.661548	0.01	32.3	20	*
Hexachlorocyclopentadiene	A	30.0	10.3	0.2725474	9.372569E-02	0.05	-65.6	20	*
Isophorone	A	30.0	24.8	0.6839875	0.5662001	0.4	-17.2	20	
N-nitroso-di-n-propylamine	A	30.0	24.5	1.195253	0.9752427	0.5	-18.4	20	
N-Nitrosodiphenylamine	A	30.0	31.2	0.1989297	0.2068608	0.01	4.0	20	
Phenol	A	30.0	26.7	1.932752	1.719167	0.8	-11.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D SIM

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31716	Laboratory ID:	BK31716-BS2
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Acenaphthene	1.00	0.480	48.0	25 - 116
Acenaphthylene	1.00	0.470	47.0	26 - 116
Anthracene	1.00	0.420	42.0	25 - 123
Benzo(a)anthracene	1.00	0.550	55.0	33 - 125
Benzo(a)pyrene	1.00	0.530	53.0	32 - 132
Benzo(b)fluoranthene	1.00	0.650	65.0	22 - 137
Benzo(g,h,i)perylene	1.00	0.800	80.0	10 - 138
Benzo(k)fluoranthene	1.00	0.710	71.0	20 - 137
Bis(2-ethylhexyl)phthalate	1.00	0.870	87.0	10 - 189
Chrysene	1.00	0.660	66.0	32 - 124
Dibenzo(a,h)anthracene	1.00	0.920	92.0	16 - 133
Fluoranthene	1.00	0.560	56.0	32 - 121
Fluorene	1.00	0.540	54.0	28 - 118
Hexachlorobenzene	1.00	0.620	62.0	23 - 124
Hexachlorobutadiene	1.00	0.700	70.0	15 - 123
Hexachloroethane	1.00	2.43	243 *	18 - 115
Indeno(1,2,3-cd)pyrene	1.00	0.860	86.0	15 - 135
Naphthalene	1.00	0.530	53.0	18 - 120
Nitrobenzene	1.00	0.660	66.0	21 - 121
N-Nitrosodimethylamine	1.00	ND	*	10 - 124
Phenanthrene	1.00	0.510	51.0	24 - 127
Pyrene	1.00	0.540	54.0	31 - 132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 8270D SIM

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31717	Laboratory ID:	BK31717-BS2
Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #		QC LIMITS REC.
Acenaphthene	0.125	0.680	544	*	25 - 116
Acenaphthylene	0.125	0.780	624	*	26 - 116
Anthracene	0.125	0.470	376	*	25 - 123
Benzo(a)anthracene	0.125	0.720	576	*	33 - 125
Benzo(a)pyrene	0.125	0.500	400	*	32 - 132
Benzo(b)fluoranthene	0.125	0.770	616	*	22 - 137
Benzo(g,h,i)perylene	0.125	0.820	656	*	10 - 138
Benzo(k)fluoranthene	0.125	0.780	624	*	20 - 137
Bis(2-ethylhexyl)phthalate	0.125	1.99	1590	*	10 - 189
Chrysene	0.125	0.800	640	*	32 - 124
Dibenzo(a,h)anthracene	0.125	0.810	648	*	16 - 133
Fluoranthene	0.125	0.790	632	*	32 - 121
Fluorene	0.125	0.810	648	*	28 - 118
Hexachlorobenzene	0.125	0.740	592	*	23 - 124
Hexachlorobutadiene	0.125	0.600	480	*	15 - 123
Hexachloroethane	0.125	2.99	2390	*	18 - 115
Indeno(1,2,3-cd)pyrene	0.125	0.810	648	*	15 - 135
Naphthalene	0.125	0.690	552	*	18 - 120
Nitrobenzene	0.125	1.10	880	*	21 - 121
N-Nitrosodimethylamine	0.125	ND		*	10 - 124
Phenanthrene	0.125	0.750	600	*	24 - 127
Pyrene	0.125	0.740	592	*	31 - 132

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA 8270D SIM

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1442
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water	Laboratory ID:	BK31717-BLK2	File ID:	SV5A5396.D
Prepared:	11/28/23 08:07	Preparation:	EPA 3510C	Initial/Final:	1000 mL / 1 mL
Analyzed:	11/29/23 19:03	Instrument:	BNA #5		
Batch:	BK31717	Sequence:	S3K3012	Calibration:	SL30003

CAS NO.	COMPOUND	CONC. (ug/L)	Q
83-32-9	Acenaphthene	0.0500	U
208-96-8	Acenaphthylene	0.0500	U
120-12-7	Anthracene	0.0500	U
56-55-3	Benzo(a)anthracene	0.0500	U
50-32-8	Benzo(a)pyrene	0.0500	U
205-99-2	Benzo(b)fluoranthene	0.0500	U
191-24-2	Benzo(g,h,i)perylene	0.0500	U
207-08-9	Benzo(k)fluoranthene	0.0500	U
117-81-7	Bis(2-ethylhexyl)phthalate	1.04	
218-01-9	Chrysene	0.0500	U
53-70-3	Dibenzo(a,h)anthracene	0.0500	U
206-44-0	Fluoranthene	0.0500	U
86-73-7	Fluorene	0.0500	U
118-74-1	Hexachlorobenzene	0.0200	U
87-68-3	Hexachlorobutadiene	0.500	U
67-72-1	Hexachloroethane	0.500	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0500	U
91-20-3	Naphthalene	0.0500	U
98-95-3	Nitrobenzene	0.250	U
62-75-9	N-Nitrosodimethylamine	0.500	U
85-01-8	Phenanthrene	0.0500	U
129-00-0	Pyrene	0.0500	U

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: 1,4-Dichlorobenzene-d4	2263981	7.6	2380114	7.59	
ISTD: Acenaphthene-d10	3520690	11.52	3681945	11.52	
ISTD: Chrysene-d12	6297502	17.42	6381386	17.42	
ISTD: Naphthalene-d8	5969264	9.16	6316104	9.15	
ISTD: Perylene-d12	7306924	19.32	7550391	19.32	
ISTD: Phenanthrene-d10	6211228	13.63	6477671	13.63	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SL30014
Instrument: BNA #5
Calibration Date: 12/06/23 16:53

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	1.149431	8.425333	11.57	2.214356E-02			20	
Acenaphthylene	1.46781	17.79227	11.33	0.0126126			20	
Anthracene	1.044594	12.50213	13.67875	0.180182			20	
Atrazine	0.2274866	9.119516	13.27	9.570324E-03			20	
Benzo(a)anthracene	1.318257	8.997635	17.4025	2.196686E-02			20	
Benzo(a)pyrene	1.040821	15.55047	19.245	0.025027			20	
Benzo(b)fluoranthene	1.188691	11.78734	18.84	0.019596			20	
Benzo(g,h,i)perylene	1.121207	11.91722	20.99375	2.022317E-02			20	
Benzo(k)fluoranthene	1.163034	11.86049	18.8725	2.721208E-02			20	
Bis(2-ethylhexyl)phthalate	0.6714981	17.8525	17.43	1.911565E-02			20	
Chrysene	1.179266	4.024385	17.4525	2.880303E-02			20	
Dibenzo(a,h)anthracene	1.236405	16.12696	20.6425	2.579753E-02			20	
Fluoranthene	1.166989	13.12939	15.37	1.352622E-02			20	
Fluorene	1.247686	10.35236	12.3	0.0170601			20	
Hexachlorobenzene	0.1858108	20.56065	13.06	1.465668E-02			20	*
Hexachlorobutadiene	0.2232037	4.858404	9.33	1.547499E-02			20	
Hexachloroethane	9.560233E-02	3.823211	8.19	2.066142E-02			20	
Indeno(1,2,3-cd)pyrene	1.388909	15.93521	20.625	3.975581E-02			20	
Naphthalene	1.128279	8.900689	9.18	1.617286E-02			20	
Nitrobenzene	1.080442	10.49665	8.3	2.528966E-02			20	
N-Nitrosodimethylamine	0.3804239	31.49105	4.39	0.4741149			20	*
Pentachlorophenol	8.949937E-02	12.09189	13.39	1.815197E-02			20	
Phenanthrene	1.090037	7.428826	13.67	1.850886E-02			20	
Pyrene	1.269529	10.88646	15.69	4.34492E-03			20	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270D SIM

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Calibration: SL30014
Laboratory ID: S3L0655-SCV1
Sequence: S3L0655
Standard ID: S23F178

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DIFF	QC LIMIT
Acenaphthene	1.00	1.00	0.0	30.00
Acenaphthylene	1.00	1.15	15.0	30.00
Anthracene	1.00	1.08	8.0	30.00
Benzo(a)anthracene	1.00	1.02	2.0	30.00
Benzo(a)pyrene	1.00	1.00	0.0	30.00
Benzo(b)fluoranthene	1.00	1.04	4.0	30.00
Benzo(g,h,i)perylene	1.00	1.10	10.0	30.00
Benzo(k)fluoranthene	1.00	1.10	10.0	30.00
Bis(2-ethylhexyl)phthalate	1.00	1.18	18.0	30.00
Chrysene	1.00	1.10	10.0	30.00
Dibenzo(a,h)anthracene	1.00	1.08	8.0	30.00
Fluoranthene	1.00	1.02	2.0	30.00
Fluorene	1.00	1.08	8.0	30.00
Hexachlorobenzene	1.00	1.11	11.0	30.00
Hexachlorobutadiene	1.00	0.920	-8.0	30.00
Hexachloroethane	1.00	4.50	350 *	30.00
Indeno(1,2,3-cd)pyrene	1.00	1.11	11.0	30.00
Naphthalene	1.00	0.990	-1.0	30.00
Nitrobenzene	1.00	1.09	9.0	30.00
N-Nitrosodimethylamine	1.00	0.950	-5.0	30.00
Phenanthrene	1.00	1.04	4.0	30.00
Pyrene	1.00	1.07	7.0	30.00

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8270D SIM

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	BNA #5	Calibration:	SL30014
Lab File ID:	SV5A5441.D	Calibration Date:	12/06/23 16:53
Sequence:	S3L0136	Injection Date:	12/01/23
Lab Sample ID:	S3L0136-CCV1	Injection Time:	12:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	1.00	0.900	1.149431	1.032781		-10.1	30	
Acenaphthylene	A	1.00	1.00	1.46781	1.471664		0.3	30	
Anthracene	A	1.00	0.880	1.044594	0.9182498		-12.1	30	
Benzo(a)anthracene	A	1.00	0.880	1.318257	1.160284		-12.0	30	
Benzo(a)pyrene	A	1.00	0.940	1.040821	0.9803755		-5.8	30	
Benzo(b)fluoranthene	A	1.00	0.960	1.188691	1.137033		-4.3	30	
Benzo(g,h,i)perylene	A	1.00	0.560	1.121207	0.6311203		-43.7	30	*
Benzo(k)fluoranthene	A	1.00	0.960	1.163034	1.111124		-4.5	30	
Bis(2-ethylhexyl)phthalate	A	2.50	3.46	0.6714981	0.9283983		38.3	30	*
Chrysene	A	1.00	0.900	1.179266	1.060266		-10.1	30	
Dibenzo(a,h)anthracene	A	1.00	0.650	1.236405	0.8010888		-35.2	30	*
Fluoranthene	A	1.00	0.950	1.166989	1.108698		-5.0	30	
Fluorene	A	1.00	0.950	1.247686	1.18447		-5.1	30	
Hexachlorobenzene	A	0.100	0.100	0.1858108	0.194489		4.7	30	
Hexachlorobutadiene	A	2.50	2.04	0.2232037	0.1817018		-18.6	30	
Hexachloroethane	A	2.50	2.04	9.560233E-02	7.817529E-02		-18.2	30	
Indeno(1,2,3-cd)pyrene	A	1.00	0.610	1.388909	0.853941		-38.5	30	*
Naphthalene	A	1.00	0.850	1.128279	0.955576		-15.3	30	
Nitrobenzene	A	1.25	1.32	1.080442	1.142833		5.8	30	
N-Nitrosodimethylamine	A	2.50	2.33	0.3804239	0.4331288		13.9	30	
Phenanthrene	A	1.00	0.880	1.090037	0.95402		-12.5	30	
Pyrene	A	1.00	0.830	1.269529	1.05613		-16.8	30	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019971.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2856	Injection Date:	11/28/23
Lab Sample ID:	S3K2856-CCV4	Injection Time:	18:07

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	52.4	9158312	8278000		4.7	20	
4,4'-DDD [2C]	A	50.0	56.7	3.250519E+07	3.182E+07		13.3	20	
4,4'-DDE	A	50.0	47.6	1.338246E+07	1.0748E+07		-4.9	20	
4,4'-DDE [2C]	A	50.0	51.3	4.508564E+07	4.0184E+07		2.6	20	
4,4'-DDT	A	50.0	63.3	7707795	8558000		26.6	20	*
4,4'-DDT [2C]	A	50.0	63.8	2.733238E+07	3.0686E+07		27.6	20	*
Aldrin	A	50.0	51.3	1.322831E+07	1.1964E+07		2.7	20	
Aldrin [2C]	A	50.0	51.4	4.948496E+07	4.5766E+07		2.8	20	
alpha-BHC	A	50.0	52.7	1.467668E+07	1.3692E+07		5.4	20	
alpha-BHC [2C]	A	50.0	54.0	5.604657E+07	5.4042E+07		7.9	20	
alpha-Chlordane	A	50.0	52.1	1.214063E+07	1.0594E+07		4.2	20	
alpha-Chlordane [2C]	A	50.0	53.0	4.380421E+07	3.9956E+07		6.0	20	
beta-BHC	A	50.0	50.6	5943993	4848000		1.2	20	
beta-BHC [2C]	A	50.0	50.7	2.118345E+07	1.7668E+07		1.3	20	
delta-BHC	A	50.0	54.2	1.221956E+07	1.1812E+07		8.4	20	
delta-BHC [2C]	A	50.0	52.2	4.494735E+07	4.159E+07		4.3	20	
Dieldrin	A	50.0	53.1	1.223139E+07	1.1336E+07		6.1	20	
Dieldrin [2C]	A	50.0	53.3	4.451832E+07	4.2042E+07		6.7	20	
Endosulfan I	A	50.0	52.9	1.068283E+07	9666000		5.8	20	
Endosulfan I [2C]	A	50.0	53.4	3.866024E+07	3.5732E+07		6.8	20	
Endosulfan II	A	50.0	55.3	9217505	8752000		10.6	20	
Endosulfan II [2C]	A	50.0	55.4	3.319693E+07	3.1826E+07		10.9	20	
Endosulfan sulfate	A	50.0	54.9	9052996	8338000		9.8	20	
Endosulfan sulfate [2C]	A	50.0	57.1	3.00675E+07	2.94E+07		14.1	20	
Endrin	A	50.0	56.8	1.028641E+07	1.0284E+07		13.6	20	
Endrin [2C]	A	50.0	58.9	3.577612E+07	3.6142E+07		17.9	20	
Endrin aldehyde	A	50.0	52.5	7879151	6352000		5.0	20	
Endrin aldehyde [2C]	A	50.0	53.9	2.554737E+07	2.1928E+07		7.7	20	
Endrin ketone	A	50.0	77.5	7194733	9722000		55.0	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019971.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2856	Injection Date:	11/28/23
Lab Sample ID:	S3K2856-CCV4	Injection Time:	18:07

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Endrin ketone [2C]	A	50.0	79.3	2.368715E+07	3.3762E+07		58.6	20	*
gamma-BHC (Lindane)	A	50.0	55.0	1.277498E+07	1.2302E+07		10.0	20	
gamma-BHC (Lindane) [2C]	A	50.0	54.8	4.863623E+07	4.7262E+07		9.7	20	
gamma-Chlordane	A	50.0	53.3	1.17451E+07	1.0798E+07		6.6	20	
gamma-Chlordane [2C]	A	50.0	53.5	4.392721E+07	4.0874E+07		7.0	20	
Heptachlor	A	50.0	60.5	1.077154E+07	1.1484E+07		21.0	20	*
Heptachlor [2C]	A	50.0	57.0	3.91582E+07	4.014E+07		14.0	20	
Heptachlor epoxide	A	50.0	53.2	1.141962E+07	1.0492E+07		6.5	20	
Heptachlor epoxide [2C]	A	50.0	52.8	4.115635E+07	3.8404E+07		5.7	20	
Methoxychlor	A	50.0	65.2	4344117	4634000		30.4	20	*
Methoxychlor [2C]	A	50.0	68.6	1.297123E+07	1.525E+07		37.1	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019983.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2856	Injection Date:	11/28/23
Lab Sample ID:	S3K2856-CCV5	Injection Time:	21:56

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4,4'-DDD	A	50.0	55.5	9158312	8864000		11.1	20	
4,4'-DDD [2C]	A	50.0	53.3	3.250519E+07	2.959E+07		6.6	20	
4,4'-DDE	A	50.0	48.1	1.338246E+07	1.0878E+07		-3.9	20	
4,4'-DDE [2C]	A	50.0	48.2	4.508564E+07	3.736E+07		-3.7	20	
4,4'-DDT	A	50.0	60.0	7707795	8024000		20.0	20	
4,4'-DDT [2C]	A	50.0	55.3	2.733238E+07	2.5626E+07		10.6	20	
Aldrin	A	50.0	53.1	1.322831E+07	1.2428E+07		6.1	20	
Aldrin [2C]	A	50.0	49.8	4.948496E+07	4.4148E+07		-0.3	20	
alpha-BHC	A	50.0	53.9	1.467668E+07	1.406E+07		7.8	20	
alpha-BHC [2C]	A	50.0	52.0	5.604657E+07	5.1646E+07		4.0	20	
alpha-Chlordane	A	50.0	53.0	1.214063E+07	1.0808E+07		6.0	20	
alpha-Chlordane [2C]	A	50.0	50.0	4.380421E+07	3.7288E+07		-0.04	20	
beta-BHC	A	50.0	51.4	5943993	4938000		2.8	20	
beta-BHC [2C]	A	50.0	49.2	2.118345E+07	1.7086E+07		-1.5	20	
delta-BHC	A	50.0	55.0	1.221956E+07	1.2012E+07		9.9	20	
delta-BHC [2C]	A	50.0	53.9	4.494735E+07	4.3342E+07		7.9	20	
Dieldrin	A	50.0	53.2	1.223139E+07	1.1372E+07		6.4	20	
Dieldrin [2C]	A	50.0	50.3	4.451832E+07	3.9284E+07		0.6	20	
Endosulfan I	A	50.0	53.4	1.068283E+07	9784000		6.9	20	
Endosulfan I [2C]	A	50.0	50.7	3.866024E+07	3.3716E+07		1.5	20	
Endosulfan II	A	50.0	55.7	9217505	8834000		11.5	20	
Endosulfan II [2C]	A	50.0	52.4	3.319693E+07	2.976E+07		4.7	20	
Endosulfan sulfate	A	50.0	54.3	9052996	8228000		8.6	20	
Endosulfan sulfate [2C]	A	50.0	52.3	3.00675E+07	2.6482E+07		4.7	20	
Endrin	A	50.0	55.7	1.028641E+07	1.006E+07		11.4	20	
Endrin [2C]	A	50.0	54.2	3.577612E+07	3.2776E+07		8.3	20	
Endrin aldehyde	A	50.0	52.2	7879151	6314000		4.5	20	
Endrin aldehyde [2C]	A	50.0	49.0	2.554737E+07	1.9668E+07		-1.9	20	
Endrin ketone	A	50.0	77.0	7194733	9642000		54.0	20	*

FORM VII

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Instrument ID:	PEST7	Calibration:	SK30033
Lab File ID:	P7019983.D	Calibration Date:	11/20/23 13:25
Sequence:	S3K2856	Injection Date:	11/28/23
Lab Sample ID:	S3K2856-CCV5	Injection Time:	21:56

		CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Endrin ketone [2C]	A	50.0	72.6	2.368715E+07	2.9916E+07		45.2	20	*
gamma-BHC (Lindane)	A	50.0	55.4	1.277498E+07	1.2406E+07		10.8	20	
gamma-BHC (Lindane) [2C]	A	50.0	52.8	4.863623E+07	4.514E+07		5.6	20	
gamma-Chlordane	A	50.0	54.1	1.17451E+07	1.0982E+07		8.2	20	
gamma-Chlordane [2C]	A	50.0	51.1	4.392721E+07	3.8724E+07		2.2	20	
Heptachlor	A	50.0	59.7	1.077154E+07	1.1298E+07		19.3	20	
Heptachlor [2C]	A	50.0	55.1	3.91582E+07	3.856E+07		10.2	20	
Heptachlor epoxide	A	50.0	53.4	1.141962E+07	1.053E+07		6.8	20	
Heptachlor epoxide [2C]	A	50.0	50.6	4.115635E+07	3.6574E+07		1.3	20	
Methoxychlor	A	50.0	61.2	4344117	4306000		22.3	20	*
Methoxychlor [2C]	A	50.0	58.6	1.297123E+07	1.262E+07		17.2	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SERIAL DILUTION

EPA 6020B

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Matrix: Water
Laboratory ID: S3L0124-SRD4
Sequence: S3L0124
Lab Source ID: 23K1442-04
Preparation: BK31933
Initial/Final: 45 / 50
Source Sample Name: 23MW7
% Solids:

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Antimony	ND		ND				EPA 6020B	10
Arsenic	18.3		20.6		12.7	*	EPA 6020B	10
Beryllium	ND		ND				EPA 6020B	10
Cadmium	ND		ND				EPA 6020B	10
Selenium	ND		ND				EPA 6020B	15
Thallium	ND		ND				EPA 6020B	10

* Values outside of QC limits

FORM I

BLANKS

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Instrument ID: Nexion2000C Project: 220293 100 E. 149th St. Bronx NY

Sequence: S3K2906 Calibration: 11/28/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3K2906-ICB1	Antimony	0.049	1.00	ug/L		EPA 6020B
	Arsenic	-0.071	1.00	ug/L		EPA 6020B
	Beryllium	0.007	0.300	ug/L		EPA 6020B
	Cadmium	0.008	0.500	ug/L		EPA 6020B
	Selenium	-1.21	1.00	ug/L		EPA 6020B
	Thallium	0.006	1.00	ug/L		EPA 6020B
S3K2906-CCB1	Antimony	0.241	1.00	ug/L		EPA 6020B
	Arsenic	-0.031	1.00	ug/L		EPA 6020B
	Beryllium	0.010	0.300	ug/L		EPA 6020B
	Cadmium	0.001	0.500	ug/L		EPA 6020B
	Selenium	0.220	1.00	ug/L		EPA 6020B
	Thallium	-0.0004	1.00	ug/L		EPA 6020B
S3K2906-CCB2	Antimony	0.164	1.00	ug/L		EPA 6020B
	Arsenic	0.010	1.00	ug/L		EPA 6020B
	Beryllium	0.009	0.300	ug/L		EPA 6020B
	Cadmium	-0.001	0.500	ug/L		EPA 6020B
	Selenium	-0.275	1.00	ug/L		EPA 6020B
	Thallium	-0.004	1.00	ug/L		EPA 6020B
S3K2906-CCB3	Antimony	0.036	1.00	ug/L		EPA 6020B
	Arsenic	0.049	1.00	ug/L		EPA 6020B
	Beryllium	0.004	0.300	ug/L		EPA 6020B
	Cadmium	0.004	0.500	ug/L		EPA 6020B
	Selenium	-0.689	1.00	ug/L		EPA 6020B
	Thallium	0.008	1.00	ug/L		EPA 6020B
BK31728-BLK1	Antimony	-0.080	1.11	ug/L		EPA 6020B
	Arsenic	0.001	1.11	ug/L		EPA 6020B
	Beryllium	0.002	0.333	ug/L		EPA 6020B
	Cadmium	0.0003	0.556	ug/L		EPA 6020B
	Selenium	1.18	1.11	ug/L	*	EPA 6020B
	Thallium	-0.023	1.11	ug/L		EPA 6020B
S3K2906-CCB4	Antimony	0.018	1.00	ug/L		EPA 6020B
	Arsenic	0.002	1.00	ug/L		EPA 6020B
	Beryllium	0.004	0.300	ug/L		EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: Nexion2000C
Calibration: 11/28/23
Control Limt: +/- 10.00%
Sequence: S3K2906

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K2906-ICV1	Antimony	50.0	47.8	95.7		ug/L	EPA 6020B
	Arsenic	50.0	48.5	97.0		ug/L	EPA 6020B
	Beryllium	50.0	49.2	98.4		ug/L	EPA 6020B
	Cadmium	50.0	48.0	95.9		ug/L	EPA 6020B
	Selenium	50.0	51.3	103		ug/L	EPA 6020B
	Thallium	50.0	49.1	98.2		ug/L	EPA 6020B
S3K2906-CCV1	Antimony	50.0	50.7	101		ug/L	EPA 6020B
	Arsenic	50.0	51.0	102		ug/L	EPA 6020B
	Beryllium	50.0	50.5	101		ug/L	EPA 6020B
	Cadmium	50.0	50.8	102		ug/L	EPA 6020B
	Selenium	50.0	49.5	99.0		ug/L	EPA 6020B
	Thallium	50.0	51.3	103		ug/L	EPA 6020B
S3K2906-CCV2	Antimony	50.0	49.8	99.5		ug/L	EPA 6020B
	Arsenic	50.0	50.1	100		ug/L	EPA 6020B
	Beryllium	50.0	51.6	103		ug/L	EPA 6020B
	Cadmium	50.0	49.3	98.6		ug/L	EPA 6020B
	Selenium	50.0	44.5	88.9	*	ug/L	EPA 6020B
	Thallium	50.0	49.7	99.5		ug/L	EPA 6020B
S3K2906-CCV3	Antimony	50.0	46.5	93.0		ug/L	EPA 6020B
	Arsenic	50.0	50.7	101		ug/L	EPA 6020B
	Beryllium	50.0	42.9	85.8	*	ug/L	EPA 6020B
	Cadmium	50.0	49.3	98.6		ug/L	EPA 6020B
	Selenium	50.0	50.2	100		ug/L	EPA 6020B
	Thallium	50.0	55.9	112	*	ug/L	EPA 6020B
S3K2906-CCV4	Antimony	50.0	45.8	91.6		ug/L	EPA 6020B
	Arsenic	50.0	50.4	101		ug/L	EPA 6020B
	Beryllium	50.0	41.7	83.4	*	ug/L	EPA 6020B
	Cadmium	50.0	47.8	95.6		ug/L	EPA 6020B
	Selenium	50.0	50.0	100		ug/L	EPA 6020B
	Thallium	50.0	57.3	115	*	ug/L	EPA 6020B
S3K2906-CCV5	Antimony	50.0	44.0	88.1	*	ug/L	EPA 6020B
	Arsenic	50.0	51.1	102		ug/L	EPA 6020B
	Beryllium	50.0	39.4	78.8	*	ug/L	EPA 6020B
	Cadmium	50.0	45.2	90.4		ug/L	EPA 6020B
	Selenium	50.0	50.4	101		ug/L	EPA 6020B
	Thallium	50.0	58.0	116	*	ug/L	EPA 6020B
S3K2906-CCV6	Antimony	50.0	42.9	85.7	*	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: Nexion2000C
Calibration: 11/28/23
Control Limt: +/- 10.00%
Sequence: S3K2906

Lab Sample ID	Analyte	True	Found	%R		Units	Method
S3K2906-CCV6	Arsenic	50.0	51.5	103		ug/L	EPA 6020B
	Beryllium	50.0	39.6	79.1	*	ug/L	EPA 6020B
	Cadmium	50.0	44.0	88.1	*	ug/L	EPA 6020B
	Selenium	50.0	46.9	93.8		ug/L	EPA 6020B
	Thallium	50.0	57.1	114	*	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: Nexion2000C
Calibration: 11/30/23
Control Limt: +/- 10.00%
Sequence: S3L0120

Lab Sample ID	Analyte	True	Found	%R	Units	Method
S3L0120-ICV1	Antimony (dissolved)	50.0	47.6	95.1	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	48.4	96.8	ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	50.2	100	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	49.0	98.0	ug/L	EPA 6020B
	Selenium (dissolved)	50.0	48.9	97.8	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	51.6	103	ug/L	EPA 6020B
S3L0120-CCV1	Antimony (dissolved)	50.0	47.0	94.0	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	50.3	101	ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	49.3	98.7	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	48.7	97.5	ug/L	EPA 6020B
	Selenium (dissolved)	50.0	48.1	96.1	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	50.0	100	ug/L	EPA 6020B
S3L0120-CCV2	Antimony (dissolved)	50.0	49.7	99.3	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	49.8	99.6	ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	52.8	106	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	50.3	101	ug/L	EPA 6020B
	Selenium (dissolved)	50.0	48.6	97.2	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	51.5	103	ug/L	EPA 6020B
S3L0120-CCV5	Antimony (dissolved)	50.0	45.8	91.5	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	48.9	97.8	ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	52.9	106	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	47.9	95.8	ug/L	EPA 6020B
	Selenium (dissolved)	50.0	52.2	104	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	53.8	108	ug/L	EPA 6020B
S3L0120-CCV6	Antimony (dissolved)	50.0	45.0	90.0	ug/L	EPA 6020B
	Arsenic (dissolved)	50.0	50.3	101	ug/L	EPA 6020B
	Beryllium (dissolved)	50.0	46.6	93.3	ug/L	EPA 6020B
	Cadmium (dissolved)	50.0	47.9	95.7	ug/L	EPA 6020B
	Selenium (dissolved)	50.0	55.8	112 *	ug/L	EPA 6020B
	Thallium (dissolved)	50.0	56.8	114 *	ug/L	EPA 6020B

* Values outside of QC limits

CRDL STANDARD

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: Nexion2000C
Calibration: 11/30/23
Sequence: S3L0120

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S3L0120-CRL1	Antimony (dissolved)	1.00	0.828	82.8	ug/L	70 - 130
	Arsenic (dissolved)	1.00	1.03	103	ug/L	70 - 130
	Beryllium (dissolved)	1.00	1.06	106	ug/L	70 - 130
	Cadmium (dissolved)	1.00	1.02	102	ug/L	70 - 130
	Selenium (dissolved)	1.00	1.40	140 *	ug/L	70 - 130
	Thallium (dissolved)	1.00	1.13	113	ug/L	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: Nexion2000C
Calibration: 11/28/23
Sequence: S3K2906

Lab Sample ID	Analyte	True	Found	%R	Units
S3K2906-IFA1	Antimony		0.75		ug/L
	Arsenic		-0.07		ug/L
	Beryllium		0.00		ug/L
	Cadmium		0.23		ug/L
	Selenium		-1.06		ug/L
	Thallium		-0.02		ug/L
S3K2906-IFB1	Antimony	20.0	20.98	105	ug/L
	Arsenic	20.0	20.48	102	ug/L
	Beryllium	20.0	19.66	98.3	ug/L
	Cadmium	20.0	20.41	102	ug/L
	Selenium	20.0	24.88	124 *	ug/L
	Thallium	20.0	19.49	97.4	ug/L

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010D

23MW5

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31836	Laboratory ID:	BK31836-MS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

Source Sample Name: 23MW5

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.	
Aluminum	2.22	0.127	2.27	96.3	75 - 125	
Barium	2.22	0.209	2.43	100	75 - 125	
Calcium	1.11	116	124	655 *	75 - 125	+
Chromium	0.222	ND	0.223	100	75 - 125	
Cobalt	0.556	ND	0.533	95.9	75 - 125	
Copper	0.278	ND	0.294	106	75 - 125	
Iron	1.11	10.2	11.8	145 *	75 - 125	+
Lead	0.556	0.0194	0.547	94.9	75 - 125	
Magnesium	1.11	40.9	44.1	288 *	75 - 125	+
Manganese	0.556	0.792	1.34	98.0	75 - 125	
Nickel	0.556	ND	0.534	96.2	75 - 125	
Potassium	1.11	34.6	37.2	231 *	75 - 125	+
Silver	0.0556	ND	0.0551	99.2	75 - 125	
Sodium	1.11	188	189	99.7	75 - 125	
Vanadium	0.556	ND	0.549	98.8	75 - 125	
Zinc	0.556	ND	0.564	102	75 - 125	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

+Sample amount detected > 4X spike amount added

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010D

23MW7

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31934	Laboratory ID:	BK31934-MS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

Source Sample Name: 23MW7

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.	
Aluminum (dissolved)	2.22	0.0958	2.23	96.0	75 - 125	
Barium (dissolved)	2.22	0.0828	2.31	100	75 - 125	
Calcium (dissolved)	1.11	166	165	-108 *	75 - 125	+
Chromium (dissolved)	0.222	ND	0.220	99.1	75 - 125	
Cobalt (dissolved)	0.556	ND	0.534	96.1	75 - 125	
Copper (dissolved)	0.278	ND	0.290	105	75 - 125	
Iron (dissolved)	1.11	ND	1.14	103	75 - 125	
Lead (dissolved)	0.556	ND	0.535	96.4	75 - 125	
Magnesium (dissolved)	1.11	25.0	25.7	66.3 *	75 - 125	+
Manganese (dissolved)	0.556	0.622	1.16	96.6	75 - 125	
Nickel (dissolved)	0.556	ND	0.535	96.3	75 - 125	
Potassium (dissolved)	1.11	18.4	19.4	88.3	75 - 125	
Silver (dissolved)	0.0556	ND	0.0542	97.6	75 - 125	
Sodium (dissolved)	1.11	41.2	42.1	80.7	75 - 125	
Vanadium (dissolved)	0.556	ND	0.543	97.8	75 - 125	
Zinc (dissolved)	0.556	ND	0.551	99.1	75 - 125	

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

+Sample amount detected > 4X spike amount added

DUPLICATES

EPA 6010D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Matrix: Water
Laboratory ID: BK31934-DUP1
Batch: BK31934
Lab Source ID: 23K1442-04
Preparation: EPA 3015A
Initial/Final: 45 mL / 50 mL
Source Sample Name: 23MW7
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Aluminum (dissolved)	20	0.0958		0.0615		43.7	*	EPA 6010D
Barium (dissolved)	20	0.0828		0.0809		2.39		EPA 6010D
Calcium (dissolved)	20	166		165		0.828		EPA 6010D
Chromium (dissolved)	20	ND		ND				EPA 6010D
Cobalt (dissolved)	20	ND		ND				EPA 6010D
Copper (dissolved)	20	ND		ND				EPA 6010D
Iron (dissolved)	20	ND		ND				EPA 6010D
Lead (dissolved)	20	ND		ND				EPA 6010D
Magnesium (dissolved)	20	25.0		24.6		1.27		EPA 6010D
Manganese (dissolved)	20	0.622		0.612		1.63		EPA 6010D
Nickel (dissolved)	20	ND		ND				EPA 6010D
Potassium (dissolved)	20	18.4		18.3		0.406		EPA 6010D
Silver (dissolved)	20	ND		ND				EPA 6010D
Sodium (dissolved)	20	41.2		40.5		1.58		EPA 6010D
Vanadium (dissolved)	20	ND		ND				EPA 6010D
Zinc (dissolved)	20	ND		ND				EPA 6010D

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31836	Laboratory ID:	BK31836-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Aluminum	2.00	1.86	93.1	80 - 120
Barium	2.00	1.97	98.7	80 - 120
Calcium	1.00	1.08	108	80 - 120
Chromium	0.200	0.196	97.9	80 - 120
Cobalt	0.500	0.482	96.5	80 - 120
Copper	0.250	0.258	103	80 - 120
Iron	1.00	0.968	96.8	80 - 120
Lead	0.500	0.493	98.5	80 - 120
Magnesium	1.00	0.940	94.0	80 - 120
Manganese	0.500	0.495	99.0	80 - 120
Nickel	0.500	0.492	98.5	80 - 120
Potassium	1.00	0.944	94.4	80 - 120
Silver	0.0500	0.0468	93.6	80 - 120
Sodium	1.00	1.62	162 *	80 - 120
Vanadium	0.500	0.474	94.8	80 - 120
Zinc	0.500	0.493	98.6	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 6010D

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31934	Laboratory ID:	BK31934-BS1
Preparation:	EPA 3015A	Initial/Final:	45 mL / 50 mL

COMPOUND	SPIKE ADDED (ug/mL)	LCS CONCENTRATION (ug/mL)	LCS % REC. #	QC LIMITS REC.
Aluminum (dissolved)	2.00	1.91	95.4	80 - 120
Barium (dissolved)	2.00	2.01	100	80 - 120
Calcium (dissolved)	1.00	1.20	120	80 - 120
Chromium (dissolved)	0.200	0.198	99.1	80 - 120
Cobalt (dissolved)	0.500	0.492	98.4	80 - 120
Copper (dissolved)	0.250	0.262	105	80 - 120
Iron (dissolved)	1.00	0.993	99.3	80 - 120
Lead (dissolved)	0.500	0.502	100	80 - 120
Magnesium (dissolved)	1.00	0.966	96.6	80 - 120
Manganese (dissolved)	0.500	0.504	101	80 - 120
Nickel (dissolved)	0.500	0.503	101	80 - 120
Potassium (dissolved)	1.00	0.961	96.1	80 - 120
Silver (dissolved)	0.0500	0.0472	94.4	80 - 120
Sodium (dissolved)	1.00	1.72	172 *	80 - 120
Vanadium (dissolved)	0.500	0.481	96.2	80 - 120
Zinc (dissolved)	0.500	0.501	100	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

SERIAL DILUTION

EPA 6010D

23MW5

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Matrix: Water
Laboratory ID: S3L0145-SRD3
Sequence: S3L0145
Lab Source ID: 23K1442-02
Preparation: BK31836
Initial/Final: 45 / 50
Source Sample Name: 23MW5
% Solids:

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Aluminum	0.127		0.579		355 *		EPA 6010D	10
Barium	0.209		0.219		4.83		EPA 6010D	10
Calcium	116		131		12.5 *		EPA 6010D	10
Chromium	ND		ND				EPA 6010D	10
Cobalt	ND		ND				EPA 6010D	10
Copper	ND		ND				EPA 6010D	10
Iron	10.2		11.3		11.2 *		EPA 6010D	10
Lead	0.0194		0.0531		173 *		EPA 6010D	10
Magnesium	40.9		45.0		10.1 *		EPA 6010D	10
Manganese	0.792		0.847		6.92		EPA 6010D	10
Nickel	ND		ND				EPA 6010D	10
Potassium	34.6		36.8		6.42		EPA 6010D	10
Silver	ND		ND				EPA 6010D	10
Sodium	188		168		10.7 *		EPA 6010D	10
Vanadium	ND		ND				EPA 6010D	10
Zinc	ND		ND				EPA 6010D	10

* Values outside of QC limits

SERIAL DILUTION

EPA 6010D

23MW7

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Matrix: Water
Laboratory ID: S3L0146-SRD4
Sequence: S3L0146
Lab Source ID: 23K1442-04
Preparation: BK31934
Initial/Final: 45 / 50
Source Sample Name: 23MW7
% Solids:

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method	QC Limits % Difference
Aluminum (dissolved)	0.0958		0.586		512 *		EPA 6010D	10
Barium (dissolved)	0.0828		ND				EPA 6010D	10
Calcium (dissolved)	166		172		3.34		EPA 6010D	10
Chromium (dissolved)	ND		ND				EPA 6010D	10
Cobalt (dissolved)	ND		ND				EPA 6010D	10
Copper (dissolved)	ND		ND				EPA 6010D	10
Iron (dissolved)	ND		ND				EPA 6010D	10
Lead (dissolved)	ND		0.0288				EPA 6010D	10
Magnesium (dissolved)	25.0		25.3		1.58		EPA 6010D	10
Manganese (dissolved)	0.622		0.649		4.28		EPA 6010D	10
Nickel (dissolved)	ND		ND				EPA 6010D	10
Potassium (dissolved)	18.4		18.8		2.40		EPA 6010D	10
Silver (dissolved)	ND		ND				EPA 6010D	10
Sodium (dissolved)	41.2		38.8		5.73		EPA 6010D	10
Vanadium (dissolved)	ND		ND				EPA 6010D	10
Zinc (dissolved)	ND		ND				EPA 6010D	10

* Values outside of QC limits

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1442

Client: Touchstone Environmental Geology, PC

Instrument ID: AvioICP Project: 220293 100 E. 149th St. Bronx NY

Sequence: S3L0145 Calibration: 12/01/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3L0145-CCB4	Barium	-0.000756	0.0250	ug/mL		EPA 6010D
	Calcium	-0.00179	0.0500	ug/mL		EPA 6010D
	Chromium	0.000563	0.00500	ug/mL		EPA 6010D
	Cobalt	-0.00146	0.00400	ug/mL		EPA 6010D
	Copper	-0.000202	0.0200	ug/mL		EPA 6010D
	Iron	-0.00408	0.250	ug/mL		EPA 6010D
	Lead	0.00385	0.00500	ug/mL		EPA 6010D
	Magnesium	-0.0111	0.0500	ug/mL		EPA 6010D
	Manganese	-0.000128	0.00500	ug/mL		EPA 6010D
	Nickel	0.00163	0.0100	ug/mL		EPA 6010D
	Potassium	0.0000339	0.0500	ug/mL		EPA 6010D
	Silver	0.000541	0.00500	ug/mL		EPA 6010D
	Sodium	-0.0305	0.500	ug/mL		EPA 6010D
	Vanadium	0.000306	0.0100	ug/mL		EPA 6010D
	Zinc	0.00103	0.0250	ug/mL		EPA 6010D
BK31836-BLK1	Aluminum	0.00170	0.0556	mg/L		EPA 6010D
	Barium	-0.00127	0.0278	mg/L		EPA 6010D
	Calcium	0.0252	0.0556	mg/L		EPA 6010D
	Chromium	0.000740	0.00556	mg/L		EPA 6010D
	Cobalt	-0.00191	0.00444	mg/L		EPA 6010D
	Copper	-0.00102	0.0222	mg/L		EPA 6010D
	Iron	-0.00265	0.278	mg/L		EPA 6010D
	Lead	0.00803	0.00556	mg/L	*	EPA 6010D
	Magnesium	-0.00569	0.0556	mg/L		EPA 6010D
	Manganese	-0.000208	0.00556	mg/L		EPA 6010D
	Nickel	0.00150	0.0111	mg/L		EPA 6010D
	Potassium	0.00730	0.0556	mg/L		EPA 6010D
	Silver	0.000481	0.00556	mg/L		EPA 6010D
	Sodium	-0.0118	0.556	mg/L		EPA 6010D
	Vanadium	0.000179	0.0111	mg/L		EPA 6010D
	Zinc	0.00177	0.0278	mg/L		EPA 6010D
S3L0145-CCB5	Aluminum	0.00417	0.0500	ug/mL		EPA 6010D
	Barium	-0.000657	0.0250	ug/mL		EPA 6010D

FORM I

BLANKS

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Instrument ID: AvioICP
Project: 220293 100 E. 149th St. Bronx NY
Sequence: S3L0146
Calibration: 12/01/23 1

Lab Sample ID	Analyte	Found	MRL	Units	C	Method
S3L0146-CCB5	Barium (dissolved)	-0.000657	0.0250	ug/mL		EPA 6010D
	Calcium (dissolved)	-0.00163	0.0500	ug/mL		EPA 6010D
	Chromium (dissolved)	0.000603	0.00500	ug/mL		EPA 6010D
	Cobalt (dissolved)	-0.00143	0.00400	ug/mL		EPA 6010D
	Copper (dissolved)	0.000628	0.0200	ug/mL		EPA 6010D
	Iron (dissolved)	-0.000487	0.250	ug/mL		EPA 6010D
	Lead (dissolved)	0.00536	0.00500	ug/mL	*	EPA 6010D
	Magnesium (dissolved)	-0.000641	0.0500	ug/mL		EPA 6010D
	Manganese (dissolved)	-0.000148	0.00500	ug/mL		EPA 6010D
	Nickel (dissolved)	0.00172	0.0100	ug/mL		EPA 6010D
	Potassium (dissolved)	0.00389	0.0500	ug/mL		EPA 6010D
	Silver (dissolved)	0.000498	0.00500	ug/mL		EPA 6010D
	Sodium (dissolved)	-0.0247	0.500	ug/mL		EPA 6010D
	Vanadium (dissolved)	0.000653	0.0100	ug/mL		EPA 6010D
	Zinc (dissolved)	0.00148	0.0250	ug/mL		EPA 6010D
BK31934-BLK1	Aluminum (dissolved)	0.00000819	0.0556	mg/L		EPA 6010D
	Barium (dissolved)	-0.000988	0.0278	mg/L		EPA 6010D
	Calcium (dissolved)	-0.000904	0.0556	mg/L		EPA 6010D
	Chromium (dissolved)	0.000579	0.00556	mg/L		EPA 6010D
	Cobalt (dissolved)	-0.00161	0.00444	mg/L		EPA 6010D
	Copper (dissolved)	-0.00142	0.0222	mg/L		EPA 6010D
	Iron (dissolved)	-0.00304	0.278	mg/L		EPA 6010D
	Lead (dissolved)	0.00706	0.00556	mg/L	*	EPA 6010D
	Magnesium (dissolved)	-0.0136	0.0556	mg/L		EPA 6010D
	Manganese (dissolved)	-0.000236	0.00556	mg/L		EPA 6010D
	Nickel (dissolved)	0.00101	0.0111	mg/L		EPA 6010D
	Potassium (dissolved)	0.0179	0.0556	mg/L		EPA 6010D
	Silver (dissolved)	0.000782	0.00556	mg/L		EPA 6010D
	Sodium (dissolved)	-0.0192	0.556	mg/L		EPA 6010D
	Vanadium (dissolved)	0.000190	0.0111	mg/L		EPA 6010D
	Zinc (dissolved)	-0.00000253	0.0278	mg/L		EPA 6010D
S3L0146-CCB6	Aluminum (dissolved)	0.00266	0.0500	ug/mL		EPA 6010D
	Barium (dissolved)	-0.000264	0.0250	ug/mL		EPA 6010D

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: AvioICP
Calibration: 12/01/23
Sequence: S3L0145

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S3L0145-CRL1	Aluminum	0.500	0.512	102	ug/mL	70 - 130
	Barium	0.0250	0.0309	123	ug/mL	70 - 130
	Calcium	0.500	0.596	119	ug/mL	70 - 130
	Chromium	0.00500	0.00542	108	ug/mL	70 - 130
	Cobalt	0.00400	0.00502	125	ug/mL	70 - 130
	Copper	0.0400	0.0426	107	ug/mL	70 - 130
	Iron	0.500	0.496	99.1	ug/mL	70 - 130
	Lead	0.00500	0.00511	102	ug/mL	70 - 130
	Magnesium	0.500	0.508	102	ug/mL	70 - 130
	Manganese	0.0100	0.0115	115	ug/mL	70 - 130
	Nickel	0.0100	0.0123	123	ug/mL	70 - 130
	Potassium	0.500	0.497	99.5	ug/mL	70 - 130
	Silver	0.0100	0.0101	101	ug/mL	70 - 130
	Sodium	0.500	0.390	78.1	ug/mL	70 - 130
	Vanadium	0.0100	0.0111	111	ug/mL	70 - 130
S3L0145-CRL2	Zinc	0.0125	0.00774	62.0 *	ug/mL	70 - 130

* Values outside of QC limits

CRDL STANDARD

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: AvioICP
Calibration: 12/01/23
Sequence: S3L0146

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
S3L0146-CRL1	Aluminum (dissolved)	0.500	0.512	102	ug/mL	70 - 130
	Barium (dissolved)	0.0250	0.0309	123	ug/mL	70 - 130
	Calcium (dissolved)	0.500	0.596	119	ug/mL	70 - 130
	Chromium (dissolved)	0.00500	0.00542	108	ug/mL	70 - 130
	Cobalt (dissolved)	0.00400	0.00502	125	ug/mL	70 - 130
	Copper (dissolved)	0.0400	0.0426	107	ug/mL	70 - 130
	Iron (dissolved)	0.500	0.496	99.1	ug/mL	70 - 130
	Lead (dissolved)	0.00500	0.00511	102	ug/mL	70 - 130
	Magnesium (dissolved)	0.500	0.508	102	ug/mL	70 - 130
	Manganese (dissolved)	0.0100	0.0115	115	ug/mL	70 - 130
	Nickel (dissolved)	0.0100	0.0123	123	ug/mL	70 - 130
	Potassium (dissolved)	0.500	0.497	99.5	ug/mL	70 - 130
	Silver (dissolved)	0.0100	0.0101	101	ug/mL	70 - 130
	Sodium (dissolved)	0.500	0.390	78.1	ug/mL	70 - 130
	Vanadium (dissolved)	0.0100	0.0111	111	ug/mL	70 - 130
S3L0146-CRL2	Zinc (dissolved)	0.0125	0.00774	62.0 *	ug/mL	70 - 130

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: AvioICP
Calibration: 12/01/23
Sequence: S3L0145

Lab Sample ID	Analyte	True	Found	%R	Units
S3L0145-IFA1	Aluminum	500	532.08	106	ug/mL
	Barium		0.10		ug/mL
	Calcium	500	493.70	98.7	ug/mL
	Chromium		0.00		ug/mL
	Cobalt		0.00		ug/mL
	Copper		0.00		ug/mL
	Iron	200	179.55	89.8	ug/mL
	Lead		0.00		ug/mL
	Magnesium	500	506.81	101	ug/mL
	Manganese		0.00		ug/mL
	Nickel		0.00		ug/mL
	Potassium		-0.07		ug/mL
	Silver		0.00		ug/mL
	Sodium		-0.43		ug/mL
	Vanadium		0.00		ug/mL
	Zinc		0.00		ug/mL
S3L0145-IFB1	Aluminum	500	530.59	106	ug/mL
	Barium	0.500	0.62	123 *	ug/mL
	Calcium	500	493.04	98.6	ug/mL
	Chromium	0.500	0.49	98.7	ug/mL
	Cobalt	0.500	0.46	92.8	ug/mL
	Copper	0.500	0.56	112	ug/mL
	Iron	200	179.78	89.9	ug/mL
	Lead	1.00	0.93	92.6	ug/mL
	Magnesium	500	506.79	101	ug/mL
	Manganese	0.500	0.51	101	ug/mL
	Nickel	1.00	0.90	90.5	ug/mL
	Potassium		-0.06		ug/mL
	Silver	1.00	1.13	113	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: AvioICP
Calibration: 12/01/23
Sequence: S3L0145

Lab Sample ID	Analyte	True	Found	%R	Units
S3L0145-IFB1	Sodium		2.12		ug/mL
	Vanadium	0.500	0.50	99.9	ug/mL
	Zinc	1.00	1.25	125 *	ug/mL

* Values outside of QC limits

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: AvioICP
Calibration: 12/01/23
Sequence: S3L0146

Lab Sample ID	Analyte	True	Found	%R	Units
S3L0146-IFA1	Aluminum (dissolved)	500	532.08	106	ug/mL
	Barium (dissolved)		0.10		ug/mL
	Calcium (dissolved)	500	493.70	98.7	ug/mL
	Chromium (dissolved)		0.00		ug/mL
	Cobalt (dissolved)		0.00		ug/mL
	Copper (dissolved)		0.00		ug/mL
	Iron (dissolved)	200	179.55	89.8	ug/mL
	Lead (dissolved)		0.00		ug/mL
	Magnesium (dissolved)	500	506.81	101	ug/mL
	Manganese (dissolved)		0.00		ug/mL
	Nickel (dissolved)		0.00		ug/mL
	Potassium (dissolved)		-0.07		ug/mL
	Silver (dissolved)		0.00		ug/mL
	Sodium (dissolved)		-0.43		ug/mL
	Vanadium (dissolved)		0.00		ug/mL
	Zinc (dissolved)		0.00		ug/mL
S3L0146-IFB1	Aluminum (dissolved)	500	530.59	106	ug/mL
	Barium (dissolved)	0.500	0.62	123 *	ug/mL
	Calcium (dissolved)	500	493.04	98.6	ug/mL
	Chromium (dissolved)	0.500	0.49	98.7	ug/mL
	Cobalt (dissolved)	0.500	0.46	92.8	ug/mL
	Copper (dissolved)	0.500	0.56	112	ug/mL
	Iron (dissolved)	200	179.78	89.9	ug/mL
	Lead (dissolved)	1.00	0.93	92.6	ug/mL
	Magnesium (dissolved)	500	506.79	101	ug/mL
	Manganese (dissolved)	0.500	0.51	101	ug/mL
	Nickel (dissolved)	1.00	0.90	90.5	ug/mL
	Potassium (dissolved)		-0.06		ug/mL
	Silver (dissolved)	1.00	1.13	113	ug/mL

ICP INTERFERENCE CHECK SAMPLE

EPA 6010D

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Instrument ID: AvioICP
Calibration: 12/01/23
Sequence: S3L0146

Lab Sample ID	Analyte	True	Found	%R	Units
S3L0146-IFB1	Sodium (dissolved)		2.12		ug/mL
	Vanadium (dissolved)	0.500	0.50	99.9	ug/mL
	Zinc (dissolved)	1.00	1.25	125 *	ug/mL

* Values outside of QC limits

HEXAVALENT CHROMIUM (CR^{6+})

Date: 11/21/23	Digest Solution pH: N/A	Digestion Start Time: N/A
Analyst: NJO	Digestion Temp: N/A	Digestion Stop Time: N/A
Batch: BK314413	Matrix: Water	Spectrophotometer ID: B
Calibration Date: 8/3/23	Slope: 1.724101	y-intercept: -0.013557

SAMPLE I.D.	Initial pH	DIL	ABS	mg/L from Curve	mg/kg	QA/QC
Method Blank (<0.1mg/L ✓)	NA	1X	.000	ND		
CCV (90-110%)			.331	.511		112.5 %
LCS (80-120%)			.342	.528	—	115.2 %
1 23K1422-01			.000	ND		
2 23K1442-01			.000			
3 -02			.000			
4 -03			.000			
5 -04			.000			
6 23K1450-01			.000			
7 23K1461-01			.000			
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18				11/21/23 1450		
19						
20						
DUP (≤35% RPD) 23K1461-01			.000	0		0 RPD %
MS (85-115%)			.319	.623		125 %
MSD (85-115%)			.308	.621		124 %
CCV (90-110%)			.335	.564		112.8 %

STANDARD/REAGENT	DATE PREPARED	EXPIRATION DATE	TRACEABILITY
CCV @ 3.5 mg/L	10/31/23	5/1/24	Page A
SPK @ mg/L	↓	↓	Page A
LCS @	11/9/23	5/9/24	Page B
Diphenylcarbazide Solution	11/13/23	5/13/24	Page C
Sulfuric Acid (Conc)			Page C
Filter Paper			Page C
Digestion Solution			Page D
Magnesium Chloride		11/21/23 NJO	Page D
Antifoam			Page D
Phosphate Buffer			Page E
5M Nitric Acid			Page E
Ottawa Sand -For Soil Method Blanks Only			Page E

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

23MW7

SM 4500 CN C-2016 / E-2016

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1442
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E. 149th St. Bronx NY
Matrix:	Water		
Batch:	BK31685	Laboratory ID:	BK31685-MSD1
Preparation:	Analysis Preparation	Initial/Final:	50 mL / 50 mL

Source Sample Name: 23MW7

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Cyanide, total	0.200	0.199	70.5	*	4.42	200	79 - 105

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

DUPLICATES

23MW7

SM 4500 CN C-2016 / E-2016

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1442
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E. 149th St. Bronx NY
Matrix: Water
Laboratory ID: BK31685-DUP1
Batch: BK31685
Lab Source ID: 23K1442-04
Preparation: Analysis Preparation
Initial/Final: 50 mL / 50 mL
Source Sample Name: 23MW7
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Cyanide, total	15	0.0580		0.0480		18.9	*	M 4500 CN C-2016 / E-20

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: **23K1901**
7 Air Samples

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 23K1901 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 23K1901, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/9/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	November 29, 2023
SAMPLE TYPE:	7 air samples
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	23K1901

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 7 air samples collected on November 29, 2023. These samples were analyzed for TO-15 Volatile Organic Compounds (VOCs).

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 23K1901. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 23K1901, seven samples were analyzed and results were reported for 469 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

TO-15 - VOCs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
23SV1 23SV2 23SV3 23SV4 23SV5 23SV6 OA-1	1,2,4-Trichlorobenzene 1,3-Butadiene Bromoform Chloromethane Hexachlorobutadiene Vinyl chloride	J detects UJ non-detects	CCV % D > QC limits and/or LCS rec outside QC limit	Data are estimated
23SV1 23SV3 23SV4 23SV5	Acrylonitrile	J detects	Analyte detected in method blank	Data are estimated
OA-1	Acrylonitrile	CRQL-U	Analyte detected in method blank	Data changed to non-detect

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/29/2023
Client Project ID: 220293 100 E.149th St. Bronx, NY
York Project (SDG) No.: 23K1901

Work Order Narrative

York Analytical Work Order No.: 23K1901

Client : Touchstone Environmental Geology, PC

Client Project ID : 220293 100 E.149th St. Bronx, NY

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 11/30/2023 5:00 PM

7 Air sample(s) were received intact unless otherwise noted.

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23SV1	23K1901-01	Air	11/29/2023 9:00 AM	11/30/2023 5:00 PM
23SV2	23K1901-02	Air	11/29/2023 8:20 AM	11/30/2023 5:00 PM
23SV3	23K1901-03	Air	11/29/2023 9:30 AM	11/30/2023 5:00 PM
23SV4	23K1901-04	Air	11/29/2023 9:50 AM	11/30/2023 5:00 PM
23SV5	23K1901-05	Air	11/29/2023 8:45 AM	11/30/2023 5:00 PM
23SV6	23K1901-06	Air	11/29/2023 10:15 AM	11/30/2023 5:00 PM
OA-1	23K1901-07	Air	11/29/2023 9:10 AM	11/30/2023 5:00 PM

WorkOrder Comments

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
AIR	EPA TO15 PREP	EPA TO-15

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K1901

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th. St. The Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) First Name

Air Matrix Codes

- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From

- New York ✗
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
23SV1	11/29/23 9:00	AS	-30	-4	37003	19416	TO-15
23SV2	8:20		-30	-4	43008	19382	
23SV3	9:30		-30	-3	28302	19400	
23SV4	9:50		-30	-2	23797	19419	
23SV5	8:45		-30	-4	37420	19417	
23SV6	10:15		-30	-4	43003	19430	
23SV7-DA-1	9:10	AO	-30	-2	36998	19396	

Comments:

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___

Routine Survey ___ Other ___

Sampling Media

- 6 Liter Canister ✓
- Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
			11/30/23 1205		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
					11/30/23 1528

York Analytical Laboratories, Inc. - Stratford
SDG: 23K1901
CLASS: AIR
METHOD: EPA TO-15

DATA PACKAGE COVER PAGE

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1901
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E.149th St. Bronx, NY

Client Sample Id:	Lab Sample Id:
23SV1	23K1901-01
23SV2	23K1901-02
23SV3	23K1901-03
23SV4	23K1901-04
23SV5	23K1901-05
23SV6	23K1901-06
OA-1	23K1901-07

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:
Name: Cassie L. Mosher

Date: 12/20/2023
Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-01 File ID: TO301735.D

Sampled: 11/29/23 09:00 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 15:10

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1.48	1.0	U	
71-55-6	1,1,1-Trichloroethane	1.48	0.81	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.48	1.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.48	1.1	U	
79-00-5	1,1,2-Trichloroethane	1.48	0.81	U	
75-34-3	1,1-Dichloroethane	1.48	0.60	U	
75-35-4	1,1-Dichloroethylene	1.48	0.15	U	
120-82-1	1,2,4-Trichlorobenzene	1.48	1.1	U	UJ
95-63-6	1,2,4-Trimethylbenzene	1.48	0.73	U	
106-93-4	1,2-Dibromoethane	1.48	1.1	U	
95-50-1	1,2-Dichlorobenzene	1.48	0.89	U	
107-06-2	1,2-Dichloroethane	1.48	0.60	U	
78-87-5	1,2-Dichloropropane	1.48	0.68	U	
76-14-2	1,2-Dichlorotetrafluoroethane	1.48	1.0	U	
108-67-8	1,3,5-Trimethylbenzene	1.48	0.73	U	
106-99-0	1,3-Butadiene	1.48	0.98	U	UJ
541-73-1	1,3-Dichlorobenzene	1.48	0.89	U	
142-28-9	1,3-Dichloropropane	1.48	0.68	U	
106-46-7	1,4-Dichlorobenzene	1.48	0.89	U	
123-91-1	1,4-Dioxane	1.48	1.1	U	
78-93-3	2-Butanone	1.48	0.44	D	
591-78-6	2-Hexanone	1.48	1.2	U	
107-05-1	3-Chloropropene	1.48	2.3	U	
108-10-1	4-Methyl-2-pentanone	1.48	0.60	U	
67-64-1	Acetone	1.48	4.2	D	
107-13-1	Acrylonitrile	1.48	0.67	BD	J
71-43-2	Benzene	1.48	0.66	D	
100-44-7	Benzyl chloride	1.48	0.76	U	
75-27-4	Bromodichloromethane	1.48	0.99	U	
75-25-2	Bromoform	1.48	1.5	U	UJ
74-83-9	Bromomethane	1.48	0.57	U	
75-15-0	Carbon disulfide	1.48	0.46	U	
56-23-5	Carbon tetrachloride	1.48	0.37	D	
108-90-7	Chlorobenzene	1.48	0.68	U	
75-00-3	Chloroethane	1.48	0.39	U	
67-66-3	Chloroform	1.48	0.72	U	
74-87-3	Chloromethane	1.48	0.64	D	J
156-59-2	cis-1,2-Dichloroethylene	1.48	0.15	U	
10061-01-5	cis-1,3-Dichloropropylene	1.48	0.67	U	
110-82-7	Cyclohexane	1.48	0.51	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-01 File ID: TO301735.D

Sampled: 11/29/23 09:00 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 15:10

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
124-48-1	Dibromochloromethane	1.48	1.3	U	
75-71-8	Dichlorodifluoromethane	1.48	2.2	D	
141-78-6	Ethyl acetate	1.48	1.1	U	
100-41-4	Ethyl Benzene	1.48	0.64	U	
87-68-3	Hexachlorobutadiene	1.48	1.6	U	UJ
67-63-0	Isopropanol	1.48	1.5	D	
80-62-6	Methyl Methacrylate	1.48	0.60	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1.48	0.53	U	
75-09-2	Methylene chloride	1.48	1.0	U	
142-82-5	n-Heptane	1.48	0.60	U	
110-54-3	n-Hexane	1.48	0.52	U	
95-47-6	o-Xylene	1.48	0.64	U	
179601-23-1	p- & m- Xylenes	1.48	1.4	D	
622-96-8	p-Ethyltoluene	1.48	0.73	U	
115-07-1	Propylene	1.48	0.25	U	
100-42-5	Styrene	1.48	0.63	U	
127-18-4	Tetrachloroethylene	1.48	1.0	U	
109-99-9	Tetrahydrofuran	1.48	0.87	U	
108-88-3	Toluene	1.48	1.0	D	
156-60-5	trans-1,2-Dichloroethylene	1.48	0.59	U	
10061-02-6	trans-1,3-Dichloropropylene	1.48	0.67	U	
79-01-6	Trichloroethylene	1.48	0.20	U	
75-69-4	Trichlorofluoromethane (Freon 11)	1.48	1.2	D	
108-05-4	Vinyl acetate	1.48	0.52	U	
593-60-2	Vinyl bromide	1.48	0.65	U	
75-01-4	Vinyl Chloride	1.48	0.19	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	419048	12.015	444567	12.015	
ISTD: 1,4-Difluorobenzene	1120007	13.572	1231861	13.572	
ISTD: d5-Chlorobenzene	949810	18.801	1187123	18.801	

* Values outside of QC limits

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-02 File ID: TO301736.D

Sampled: 11/29/23 08:20 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 16:04

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1.47	1.0	U	
71-55-6	1,1,1-Trichloroethane	1.47	0.80	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.47	1.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.47	1.1	U	
79-00-5	1,1,2-Trichloroethane	1.47	0.80	U	
75-34-3	1,1-Dichloroethane	1.47	0.59	U	
75-35-4	1,1-Dichloroethylene	1.47	0.15	U	
120-82-1	1,2,4-Trichlorobenzene	1.47	1.1	U	UJ
95-63-6	1,2,4-Trimethylbenzene	1.47	24	D	
106-93-4	1,2-Dibromoethane	1.47	1.1	U	
95-50-1	1,2-Dichlorobenzene	1.47	0.88	U	
107-06-2	1,2-Dichloroethane	1.47	2.5	D	
78-87-5	1,2-Dichloropropane	1.47	0.68	U	
76-14-2	1,2-Dichlorotetrafluoroethane	1.47	1.0	U	
108-67-8	1,3,5-Trimethylbenzene	1.47	6.6	D	
106-99-0	1,3-Butadiene	1.47	0.98	U	UJ
541-73-1	1,3-Dichlorobenzene	1.47	0.88	U	
142-28-9	1,3-Dichloropropane	1.47	0.68	U	
106-46-7	1,4-Dichlorobenzene	1.47	0.88	U	
123-91-1	1,4-Dioxane	1.47	1.1	U	
78-93-3	2-Butanone	1.47	0.95	D	
591-78-6	2-Hexanone	1.47	1.2	U	
107-05-1	3-Chloropropene	1.47	2.3	U	
108-10-1	4-Methyl-2-pentanone	1.47	0.60	U	
67-64-1	Acetone	1.47	55	D	
107-13-1	Acrylonitrile	1.47	0.32	U	
71-43-2	Benzene	1.47	2.1	D	
100-44-7	Benzyl chloride	1.47	0.76	U	
75-27-4	Bromodichloromethane	1.47	0.98	U	
75-25-2	Bromoform	1.47	1.5	U	UJ
74-83-9	Bromomethane	1.47	0.57	U	
75-15-0	Carbon disulfide	1.47	0.55	D	
56-23-5	Carbon tetrachloride	1.47	0.23	U	
108-90-7	Chlorobenzene	1.47	0.68	U	
75-00-3	Chloroethane	1.47	0.39	U	
67-66-3	Chloroform	1.47	0.72	U	
74-87-3	Chloromethane	1.47	0.30	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1.47	0.15	U	
10061-01-5	cis-1,3-Dichloropropylene	1.47	0.67	U	
110-82-7	Cyclohexane	1.47	6.3	D	

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-02 File ID: TO301736.D

Sampled: 11/29/23 08:20 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 16:04

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
124-48-1	Dibromochloromethane	1.47	1.3	U	
75-71-8	Dichlorodifluoromethane	1.47	2.0	D	
141-78-6	Ethyl acetate	1.47	1.1	U	
100-41-4	Ethyl Benzene	1.47	8.7	D	
87-68-3	Hexachlorobutadiene	1.47	1.6	U	UJ
67-63-0	Isopropanol	1.47	1.3	D	
80-62-6	Methyl Methacrylate	1.47	0.60	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1.47	0.53	U	
75-09-2	Methylene chloride	1.47	1.0	U	
142-82-5	n-Heptane	1.47	5.3	D	
110-54-3	n-Hexane	1.47	23	D	
95-47-6	o-Xylene	1.47	18	D	
179601-23-1	p- & m- Xylenes	1.47	39	D	
622-96-8	p-Ethyltoluene	1.47	19	D	
115-07-1	Propylene	1.47	0.25	U	
100-42-5	Styrene	1.47	0.63	U	
127-18-4	Tetrachloroethylene	1.47	1.0	D	
109-99-9	Tetrahydrofuran	1.47	0.87	U	
108-88-3	Toluene	1.47	17	D	
156-60-5	trans-1,2-Dichloroethylene	1.47	0.58	U	
10061-02-6	trans-1,3-Dichloropropylene	1.47	0.67	U	
79-01-6	Trichloroethylene	1.47	0.20	U	
75-69-4	Trichlorofluoromethane (Freon 11)	1.47	1.2	D	
108-05-4	Vinyl acetate	1.47	0.52	U	
593-60-2	Vinyl bromide	1.47	0.64	U	
75-01-4	Vinyl Chloride	1.47	0.19	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	424093	12.021	444567	12.015	
ISTD: 1,4-Difluorobenzene	1160551	13.572	1231861	13.572	
ISTD: d5-Chlorobenzene	1025723	18.801	1187123	18.801	

* Values outside of QC limits

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-03 File ID: TO301737.D

Sampled: 11/29/23 09:30 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 16:57

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1.48	1.0	U	
71-55-6	1,1,1-Trichloroethane	1.48	0.81	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.48	1.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.48	1.1	U	
79-00-5	1,1,2-Trichloroethane	1.48	0.81	U	
75-34-3	1,1-Dichloroethane	1.48	0.60	U	
75-35-4	1,1-Dichloroethylene	1.48	0.15	U	
120-82-1	1,2,4-Trichlorobenzene	1.48	1.1	U	UJ
95-63-6	1,2,4-Trimethylbenzene	1.48	0.73	D	
106-93-4	1,2-Dibromoethane	1.48	1.1	U	
95-50-1	1,2-Dichlorobenzene	1.48	0.89	U	
107-06-2	1,2-Dichloroethane	1.48	0.60	U	
78-87-5	1,2-Dichloropropane	1.48	0.68	U	
76-14-2	1,2-Dichlorotetrafluoroethane	1.48	1.0	U	
108-67-8	1,3,5-Trimethylbenzene	1.48	0.73	U	
106-99-0	1,3-Butadiene	1.48	0.98	U	UJ
541-73-1	1,3-Dichlorobenzene	1.48	0.89	U	
142-28-9	1,3-Dichloropropane	1.48	0.68	U	
106-46-7	1,4-Dichlorobenzene	1.48	0.89	U	
123-91-1	1,4-Dioxane	1.48	1.1	U	
78-93-3	2-Butanone	1.48	0.52	D	
591-78-6	2-Hexanone	1.48	1.2	U	
107-05-1	3-Chloropropene	1.48	2.3	U	
108-10-1	4-Methyl-2-pentanone	1.48	0.61	U	
67-64-1	Acetone	1.48	18	D	
107-13-1	Acrylonitrile	1.48	0.67	BD	J
71-43-2	Benzene	1.48	0.76	D	
100-44-7	Benzyl chloride	1.48	0.77	U	
75-27-4	Bromodichloromethane	1.48	0.99	U	
75-25-2	Bromoform	1.48	1.5	U	UJ
74-83-9	Bromomethane	1.48	0.57	U	
75-15-0	Carbon disulfide	1.48	0.46	U	
56-23-5	Carbon tetrachloride	1.48	0.47	D	
108-90-7	Chlorobenzene	1.48	0.68	U	
75-00-3	Chloroethane	1.48	0.39	U	
67-66-3	Chloroform	1.48	0.72	U	
74-87-3	Chloromethane	1.48	0.64	D	J
156-59-2	cis-1,2-Dichloroethylene	1.48	0.15	U	
10061-01-5	cis-1,3-Dichloropropylene	1.48	0.67	U	
110-82-7	Cyclohexane	1.48	0.51	U	

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-03 File ID: TO301737.D

Sampled: 11/29/23 09:30 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 16:57

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
124-48-1	Dibromochloromethane	1.48	1.3	U	
75-71-8	Dichlorodifluoromethane	1.48	2.4	D	
141-78-6	Ethyl acetate	1.48	1.1	U	
100-41-4	Ethyl Benzene	1.48	0.64	U	
87-68-3	Hexachlorobutadiene	1.48	1.6	U	UJ
67-63-0	Isopropanol	1.48	2.1	D	
80-62-6	Methyl Methacrylate	1.48	0.61	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1.48	0.53	U	
75-09-2	Methylene chloride	1.48	1.0	U	
142-82-5	n-Heptane	1.48	0.61	U	
110-54-3	n-Hexane	1.48	0.52	D	
95-47-6	o-Xylene	1.48	0.84	D	
179601-23-1	p- & m- Xylenes	1.48	2.3	D	
622-96-8	p-Ethyltoluene	1.48	0.73	U	
115-07-1	Propylene	1.48	0.25	U	
100-42-5	Styrene	1.48	0.63	U	
127-18-4	Tetrachloroethylene	1.48	1.0	U	
109-99-9	Tetrahydrofuran	1.48	0.87	U	
108-88-3	Toluene	1.48	1.5	D	
156-60-5	trans-1,2-Dichloroethylene	1.48	0.59	U	
10061-02-6	trans-1,3-Dichloropropylene	1.48	0.67	U	
79-01-6	Trichloroethylene	1.48	0.20	U	
75-69-4	Trichlorofluoromethane (Freon 11)	1.48	1.4	D	
108-05-4	Vinyl acetate	1.48	0.52	U	
593-60-2	Vinyl bromide	1.48	0.65	U	
75-01-4	Vinyl Chloride	1.48	0.19	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	459991	12.015	444567	12.015	
ISTD: 1,4-Difluorobenzene	1277203	13.572	1231861	13.572	
ISTD: d5-Chlorobenzene	1078153	18.801	1187123	18.801	

* Values outside of QC limits

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-04 File ID: TO301738.D

Sampled: 11/29/23 09:50 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 17:50

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1.45	1.0	U	
71-55-6	1,1,1-Trichloroethane	1.45	0.79	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.45	1.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.45	1.1	U	
79-00-5	1,1,2-Trichloroethane	1.45	0.79	U	
75-34-3	1,1-Dichloroethane	1.45	0.59	U	
75-35-4	1,1-Dichloroethylene	1.45	0.14	U	
120-82-1	1,2,4-Trichlorobenzene	1.45	1.1	U	UJ
95-63-6	1,2,4-Trimethylbenzene	1.45	6.2	D	
106-93-4	1,2-Dibromoethane	1.45	1.1	U	
95-50-1	1,2-Dichlorobenzene	1.45	0.87	U	
107-06-2	1,2-Dichloroethane	1.45	0.59	U	
78-87-5	1,2-Dichloropropane	1.45	0.67	U	
76-14-2	1,2-Dichlorotetrafluoroethane	1.45	1.0	U	
108-67-8	1,3,5-Trimethylbenzene	1.45	1.7	D	
106-99-0	1,3-Butadiene	1.45	0.96	U	UJ
541-73-1	1,3-Dichlorobenzene	1.45	0.87	U	
142-28-9	1,3-Dichloropropane	1.45	0.67	U	
106-46-7	1,4-Dichlorobenzene	1.45	0.87	U	
123-91-1	1,4-Dioxane	1.45	1.0	U	
78-93-3	2-Butanone	1.45	0.51	D	
591-78-6	2-Hexanone	1.45	1.2	U	
107-05-1	3-Chloropropene	1.45	2.3	U	
108-10-1	4-Methyl-2-pentanone	1.45	0.59	U	
67-64-1	Acetone	1.45	56	D	
107-13-1	Acrylonitrile	1.45	0.63	BD	J
71-43-2	Benzene	1.45	0.51	D	
100-44-7	Benzyl chloride	1.45	0.75	U	
75-27-4	Bromodichloromethane	1.45	0.97	U	
75-25-2	Bromoform	1.45	1.5	U	UJ
74-83-9	Bromomethane	1.45	0.56	U	
75-15-0	Carbon disulfide	1.45	0.45	U	
56-23-5	Carbon tetrachloride	1.45	0.36	D	
108-90-7	Chlorobenzene	1.45	0.67	U	
75-00-3	Chloroethane	1.45	0.38	U	
67-66-3	Chloroform	1.45	2.8	D	
74-87-3	Chloromethane	1.45	0.54	D	J
156-59-2	cis-1,2-Dichloroethylene	1.45	0.14	U	
10061-01-5	cis-1,3-Dichloropropylene	1.45	0.66	U	
110-82-7	Cyclohexane	1.45	0.50	U	

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-04 File ID: TO301738.D

Sampled: 11/29/23 09:50 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 17:50

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
124-48-1	Dibromochloromethane	1.45	1.2	U	
75-71-8	Dichlorodifluoromethane	1.45	2.3	D	
141-78-6	Ethyl acetate	1.45	1.0	U	
100-41-4	Ethyl Benzene	1.45	3.5	D	
87-68-3	Hexachlorobutadiene	1.45	1.5	U	UJ
67-63-0	Isopropanol	1.45	4.1	D	
80-62-6	Methyl Methacrylate	1.45	0.59	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1.45	0.52	U	
75-09-2	Methylene chloride	1.45	1.0	U	
142-82-5	n-Heptane	1.45	0.71	D	
110-54-3	n-Hexane	1.45	0.51	U	
95-47-6	o-Xylene	1.45	8.2	D	
179601-23-1	p- & m- Xylenes	1.45	16	D	
622-96-8	p-Ethyltoluene	1.45	5.8	D	
115-07-1	Propylene	1.45	0.25	U	
100-42-5	Styrene	1.45	0.62	U	
127-18-4	Tetrachloroethylene	1.45	1.8	D	
109-99-9	Tetrahydrofuran	1.45	0.86	U	
108-88-3	Toluene	1.45	3.6	D	
156-60-5	trans-1,2-Dichloroethylene	1.45	0.57	U	
10061-02-6	trans-1,3-Dichloropropylene	1.45	0.66	U	
79-01-6	Trichloroethylene	1.45	0.19	U	
75-69-4	Trichlorofluoromethane (Freon 11)	1.45	1.4	D	
108-05-4	Vinyl acetate	1.45	0.51	U	
593-60-2	Vinyl bromide	1.45	0.63	U	
75-01-4	Vinyl Chloride	1.45	0.19	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	444887	12.021	444567	12.015	
ISTD: 1,4-Difluorobenzene	1208680	13.572	1231861	13.572	
ISTD: d5-Chlorobenzene	1027677	18.801	1187123	18.801	

* Values outside of QC limits

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-05 File ID: TO301739.D

Sampled: 11/29/23 08:45 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 18:44

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	1.53	1.1	U	
71-55-6	1,1,1-Trichloroethane	1.53	0.84	U	
79-34-5	1,1,2,2-Tetrachloroethane	1.53	1.1	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1.53	1.2	U	
79-00-5	1,1,2-Trichloroethane	1.53	0.84	U	
75-34-3	1,1-Dichloroethane	1.53	0.62	U	
75-35-4	1,1-Dichloroethylene	1.53	0.15	U	
120-82-1	1,2,4-Trichlorobenzene	1.53	1.1	U	UJ
95-63-6	1,2,4-Trimethylbenzene	1.53	9.3	D	
106-93-4	1,2-Dibromoethane	1.53	1.2	U	
95-50-1	1,2-Dichlorobenzene	1.53	0.92	U	
107-06-2	1,2-Dichloroethane	1.53	0.62	U	
78-87-5	1,2-Dichloropropane	1.53	0.71	U	
76-14-2	1,2-Dichlorotetrafluoroethane	1.53	1.1	U	
108-67-8	1,3,5-Trimethylbenzene	1.53	3.2	D	
106-99-0	1,3-Butadiene	1.53	1.0	U	UJ
541-73-1	1,3-Dichlorobenzene	1.53	0.92	U	
142-28-9	1,3-Dichloropropane	1.53	0.71	U	
106-46-7	1,4-Dichlorobenzene	1.53	0.92	U	
123-91-1	1,4-Dioxane	1.53	1.1	U	
78-93-3	2-Butanone	1.53	32	D	
591-78-6	2-Hexanone	1.53	4.5	D	
107-05-1	3-Chloropropene	1.53	2.4	U	
108-10-1	4-Methyl-2-pentanone	1.53	0.63	U	
67-64-1	Acetone	1.53	31	D	
107-13-1	Acrylonitrile	1.53	1.0	BD	J
71-43-2	Benzene	1.53	6.0	D	
100-44-7	Benzyl chloride	1.53	0.79	U	
75-27-4	Bromodichloromethane	1.53	1.0	U	
75-25-2	Bromoform	1.53	1.6	U	UJ
74-83-9	Bromomethane	1.53	0.59	U	
75-15-0	Carbon disulfide	1.53	4.0	D	
56-23-5	Carbon tetrachloride	1.53	0.24	U	
108-90-7	Chlorobenzene	1.53	0.70	U	
75-00-3	Chloroethane	1.53	0.40	U	
67-66-3	Chloroform	1.53	0.75	U	
74-87-3	Chloromethane	1.53	0.32	U	UJ
156-59-2	cis-1,2-Dichloroethylene	1.53	0.15	U	
10061-01-5	cis-1,3-Dichloropropylene	1.53	0.69	U	
110-82-7	Cyclohexane	1.53	4.5	D	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-05 File ID: TO301739.D

Sampled: 11/29/23 08:45 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 18:44

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
124-48-1	Dibromochloromethane	1.53	1.3	U	
75-71-8	Dichlorodifluoromethane	1.53	2.2	D	
141-78-6	Ethyl acetate	1.53	1.1	U	
100-41-4	Ethyl Benzene	1.53	7.8	D	
87-68-3	Hexachlorobutadiene	1.53	1.6	U	UJ
67-63-0	Isopropanol	1.53	1.0	D	
80-62-6	Methyl Methacrylate	1.53	0.63	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	1.53	0.55	U	
75-09-2	Methylene chloride	1.53	1.1	U	
142-82-5	n-Heptane	1.53	14	D	
110-54-3	n-Hexane	1.53	26	D	
95-47-6	o-Xylene	1.53	15	D	
179601-23-1	p- & m- Xylenes	1.53	30	D	
622-96-8	p-Ethyltoluene	1.53	11	D	
115-07-1	Propylene	1.53	3.4	D	
100-42-5	Styrene	1.53	0.65	U	
127-18-4	Tetrachloroethylene	1.53	2.0	D	
109-99-9	Tetrahydrofuran	1.53	0.90	U	
108-88-3	Toluene	1.53	18	D	
156-60-5	trans-1,2-Dichloroethylene	1.53	0.61	U	
10061-02-6	trans-1,3-Dichloropropylene	1.53	0.69	U	
79-01-6	Trichloroethylene	1.53	0.49	D	
75-69-4	Trichlorofluoromethane (Freon 11)	1.53	1.3	D	
108-05-4	Vinyl acetate	1.53	0.54	U	
593-60-2	Vinyl bromide	1.53	0.67	U	
75-01-4	Vinyl Chloride	1.53	0.20	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	449583	12.015	444567	12.015	
ISTD: 1,4-Difluorobenzene	1252234	13.572	1231861	13.572	
ISTD: d5-Chlorobenzene	1110290	18.801	1187123	18.801	

* Values outside of QC limits

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-06 File ID: TO301740.D

Sampled: 11/29/23 10:15 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 19:33

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	2.97	2.0	U	
71-55-6	1,1,1-Trichloroethane	2.97	1.6	U	
79-34-5	1,1,2,2-Tetrachloroethane	2.97	2.0	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2.97	2.3	U	
79-00-5	1,1,2-Trichloroethane	2.97	1.6	U	
75-34-3	1,1-Dichloroethane	2.97	1.2	U	
75-35-4	1,1-Dichloroethylene	2.97	0.29	U	
120-82-1	1,2,4-Trichlorobenzene	2.97	2.2	U	UJ
95-63-6	1,2,4-Trimethylbenzene	2.97	51	D	
106-93-4	1,2-Dibromoethane	2.97	2.3	U	
95-50-1	1,2-Dichlorobenzene	2.97	1.8	U	
107-06-2	1,2-Dichloroethane	2.97	1.2	U	
78-87-5	1,2-Dichloropropane	2.97	1.4	U	
76-14-2	1,2-Dichlorotetrafluoroethane	2.97	2.1	U	
108-67-8	1,3,5-Trimethylbenzene	2.97	40	D	
106-99-0	1,3-Butadiene	2.97	2.0	U	UJ
541-73-1	1,3-Dichlorobenzene	2.97	1.8	U	
142-28-9	1,3-Dichloropropane	2.97	1.4	U	
106-46-7	1,4-Dichlorobenzene	2.97	1.8	U	
123-91-1	1,4-Dioxane	2.97	2.1	U	
78-93-3	2-Butanone	2.97	2.6	D	
591-78-6	2-Hexanone	2.97	2.4	U	
107-05-1	3-Chloropropene	2.97	4.6	U	
108-10-1	4-Methyl-2-pentanone	2.97	1.2	U	
67-64-1	Acetone	2.97	54	D	
107-13-1	Acrylonitrile	2.97	0.64	U	
71-43-2	Benzene	2.97	0.95	U	
100-44-7	Benzyl chloride	2.97	1.5	U	
75-27-4	Bromodichloromethane	2.97	2.0	U	
75-25-2	Bromoform	2.97	3.1	U	UJ
74-83-9	Bromomethane	2.97	1.2	U	
75-15-0	Carbon disulfide	2.97	9.6	D	
56-23-5	Carbon tetrachloride	2.97	0.47	U	
108-90-7	Chlorobenzene	2.97	1.4	U	
75-00-3	Chloroethane	2.97	0.78	U	
67-66-3	Chloroform	2.97	1.4	U	
74-87-3	Chloromethane	2.97	0.61	U	UJ
156-59-2	cis-1,2-Dichloroethylene	2.97	0.29	U	
10061-01-5	cis-1,3-Dichloropropylene	2.97	1.3	U	
110-82-7	Cyclohexane	2.97	92	D	

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

23SV6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Soil Vapor Laboratory ID: 23K1901-06 File ID: TO301740.D

Sampled: 11/29/23 10:15 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 19:33

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
124-48-1	Dibromochloromethane	2.97	2.5	U	
75-71-8	Dichlorodifluoromethane	2.97	2.2	D	
141-78-6	Ethyl acetate	2.97	2.1	U	
100-41-4	Ethyl Benzene	2.97	54	D	
87-68-3	Hexachlorobutadiene	2.97	3.2	U	UJ
67-63-0	Isopropanol	2.97	1.7	D	
80-62-6	Methyl Methacrylate	2.97	1.2	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	2.97	1.1	U	
75-09-2	Methylene chloride	2.97	2.1	U	
142-82-5	n-Heptane	2.97	340	D	
110-54-3	n-Hexane	2.97	170	D	
95-47-6	o-Xylene	2.97	21	D	
179601-23-1	p- & m- Xylenes	2.97	52	D	
622-96-8	p-Ethyltoluene	2.97	42	D	
115-07-1	Propylene	2.97	0.51	U	
100-42-5	Styrene	2.97	1.3	U	
127-18-4	Tetrachloroethylene	2.97	17	D	
109-99-9	Tetrahydrofuran	2.97	1.7	U	
108-88-3	Toluene	2.97	16	D	
156-60-5	trans-1,2-Dichloroethylene	2.97	1.2	U	
10061-02-6	trans-1,3-Dichloropropylene	2.97	1.3	U	
79-01-6	Trichloroethylene	2.97	0.40	U	
75-69-4	Trichlorofluoromethane (Freon 11)	2.97	1.7	U	
108-05-4	Vinyl acetate	2.97	1.0	U	
593-60-2	Vinyl bromide	2.97	1.3	U	
75-01-4	Vinyl Chloride	2.97	0.38	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	507664	12.015	444567	12.015	
ISTD: 1,4-Difluorobenzene	1598209	13.572	1231861	13.572	
ISTD: d5-Chlorobenzene	1486838	18.801	1187123	18.801	

* Values outside of QC limits

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

OA-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Outdoor Ambient Air Laboratory ID: 23K1901-07 File ID: TO301742.D

Sampled: 11/29/23 09:10 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 21:16

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
630-20-6	1,1,1,2-Tetrachloroethane	0.772	0.53	U	
71-55-6	1,1,1-Trichloroethane	0.772	0.42	U	
79-34-5	1,1,2,2-Tetrachloroethane	0.772	0.53	U	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.772	0.59	U	
79-00-5	1,1,2-Trichloroethane	0.772	0.42	U	
75-34-3	1,1-Dichloroethane	0.772	0.31	U	
75-35-4	1,1-Dichloroethylene	0.772	0.077	U	
120-82-1	1,2,4-Trichlorobenzene	0.772	0.57	U	UJ
95-63-6	1,2,4-Trimethylbenzene	0.772	0.38	U	
106-93-4	1,2-Dibromoethane	0.772	0.59	U	
95-50-1	1,2-Dichlorobenzene	0.772	0.46	U	
107-06-2	1,2-Dichloroethane	0.772	0.31	U	
78-87-5	1,2-Dichloropropane	0.772	0.36	U	
76-14-2	1,2-Dichlorotetrafluoroethane	0.772	0.54	U	
108-67-8	1,3,5-Trimethylbenzene	0.772	0.38	U	
106-99-0	1,3-Butadiene	0.772	0.51	U	UJ
541-73-1	1,3-Dichlorobenzene	0.772	0.46	U	
142-28-9	1,3-Dichloropropane	0.772	0.36	U	
106-46-7	1,4-Dichlorobenzene	0.772	0.46	U	
123-91-1	1,4-Dioxane	0.772	0.56	U	
78-93-3	2-Butanone	0.772	0.25	D	
591-78-6	2-Hexanone	0.772	0.63	U	
107-05-1	3-Chloropropene	0.772	1.2	U	
108-10-1	4-Methyl-2-pentanone	0.772	0.32	U	
67-64-1	Acetone	0.772	2.1	D	
107-13-1	Acrylonitrile	0.772	0.35 UJ ~~0.35~~	BD	UJ
71-43-2	Benzene	0.772	0.39	D	
100-44-7	Benzyl chloride	0.772	0.40	U	
75-27-4	Bromodichloromethane	0.772	0.52	U	
75-25-2	Bromoform	0.772	0.80	U	UJ
74-83-9	Bromomethane	0.772	0.30	U	
75-15-0	Carbon disulfide	0.772	0.24	U	
56-23-5	Carbon tetrachloride	0.772	0.24	D	
108-90-7	Chlorobenzene	0.772	0.36	U	
75-00-3	Chloroethane	0.772	0.20	U	
67-66-3	Chloroform	0.772	0.38	U	
74-87-3	Chloromethane	0.772	0.32	D	J
156-59-2	cis-1,2-Dichloroethylene	0.772	0.077	U	
10061-01-5	cis-1,3-Dichloropropylene	0.772	0.35	U	
110-82-7	Cyclohexane	0.772	0.27	U	

MKP 2/9/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA TO-15

OA-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23K1901

Client: Touchstone Environmental Geology, PC Project: 220293 100 E.149th St. Bronx, NY

Matrix: Outdoor Ambient Air Laboratory ID: 23K1901-07 File ID: TO301742.D

Sampled: 11/29/23 09:10 Prepared: 12/05/23 09:00 Analyzed: 12/05/23 21:16

Solids: Preparation: EPA TO15 PREP Initial/Final: 400 mL / 400 mL

Batch: BL30340 Sequence: S3L0843 Calibration: SK30035 Instrument: 5975C

CAS NO.	COMPOUND	DILUTION	CONC. (ug/m³)	Q	
124-48-1	Dibromochloromethane	0.772	0.66	U	
75-71-8	Dichlorodifluoromethane	0.772	1.2	D	
141-78-6	Ethyl acetate	0.772	0.56	U	
100-41-4	Ethyl Benzene	0.772	0.34	U	
87-68-3	Hexachlorobutadiene	0.772	0.82	U	UJ
67-63-0	Isopropanol	0.772	0.91	D	
80-62-6	Methyl Methacrylate	0.772	0.32	U	
1634-04-4	Methyl tert-butyl ether (MTBE)	0.772	0.28	U	
75-09-2	Methylene chloride	0.772	0.54	U	
142-82-5	n-Heptane	0.772	0.57	D	
110-54-3	n-Hexane	0.772	0.44	D	
95-47-6	o-Xylene	0.772	0.34	U	
179601-23-1	p- & m- Xylenes	0.772	0.74	D	
622-96-8	p-Ethyltoluene	0.772	0.38	U	
115-07-1	Propylene	0.772	0.13	U	
100-42-5	Styrene	0.772	0.33	U	
127-18-4	Tetrachloroethylene	0.772	0.52	U	
109-99-9	Tetrahydrofuran	0.772	0.46	U	
108-88-3	Toluene	0.772	0.55	D	
156-60-5	trans-1,2-Dichloroethylene	0.772	0.31	U	
10061-02-6	trans-1,3-Dichloropropylene	0.772	0.35	U	
79-01-6	Trichloroethylene	0.772	0.10	U	
75-69-4	Trichlorofluoromethane (Freon 11)	0.772	0.69	D	
108-05-4	Vinyl acetate	0.772	0.27	U	
593-60-2	Vinyl bromide	0.772	0.34	U	
75-01-4	Vinyl Chloride	0.772	0.099	U	UJ

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Bromochloromethane	522342	12.021	444567	12.015	
ISTD: 1,4-Difluorobenzene	1669347	13.572	1231861	13.572	
ISTD: d5-Chlorobenzene	1444370	18.801	1187123	18.801	

* Values outside of QC limits

MKP 2/9/2024

Appendix B

Laboratory QC Documentation

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1901
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E.149th St. Bronx, NY
Matrix:	Air		
Batch:	BL30340	Laboratory ID:	BL30340-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #	QC LIMITS REC.
1,1,1,2-Tetrachloroethane	10.0	9.94	99.4	70 - 130
1,1,1-Trichloroethane	10.0	10.2	102	70 - 130
1,1,2,2-Tetrachloroethane	10.0	9.53	95.3	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	9.87	98.7	70 - 130
1,1,2-Trichloroethane	10.0	9.82	98.2	70 - 130
1,1-Dichloroethane	10.0	9.35	93.5	70 - 130
1,1-Dichloroethylene	10.0	10.0	100	70 - 130
1,2,4-Trichlorobenzene	10.0	6.80	68.0 *	70 - 130
1,2,4-Trimethylbenzene	10.0	10.3	103	70 - 130
1,2-Dibromoethane	10.0	9.95	99.5	70 - 130
1,2-Dichlorobenzene	10.0	10.3	103	70 - 130
1,2-Dichloroethane	10.0	9.37	93.7	70 - 130
1,2-Dichloropropane	10.0	9.46	94.6	70 - 130
1,2-Dichlorotetrafluoroethane	10.0	7.14	71.4	70 - 130
1,3,5-Trimethylbenzene	10.0	9.98	99.8	70 - 130
1,3-Butadiene	10.0	4.13	41.3 *	70 - 130
1,3-Dichlorobenzene	10.0	8.53	85.3	70 - 130
1,3-Dichloropropane	10.0	9.61	96.1	70 - 130
1,4-Dichlorobenzene	10.0	8.34	83.4	70 - 130
1,4-Dioxane	10.0	9.28	92.8	70 - 130
2-Butanone	10.0	9.27	92.7	70 - 130
2-Hexanone	10.0	9.11	91.1	70 - 130
3-Chloropropene	10.0	10.5	105	70 - 130
4-Methyl-2-pentanone	10.0	9.30	93.0	70 - 130
Acetone	10.0	9.15	91.5	70 - 130
Acrylonitrile	10.0	9.80	98.0	70 - 130
Benzene	10.0	10.1	101	70 - 130
Benzyl chloride	10.0	8.95	89.5	70 - 130
Bromodichloromethane	10.0	9.49	94.9	70 - 130
Bromoform	10.0	5.30	53.0 *	70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1901
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E.149th St. Bronx, NY
Matrix:	Air		
Batch:	BL30340	Laboratory ID:	BL30340-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #		QC LIMITS REC.
Bromomethane	10.0	10.1	101		70 - 130
Carbon disulfide	10.0	9.75	97.5		70 - 130
Carbon tetrachloride	10.0	11.0	110		70 - 130
Chlorobenzene	10.0	9.55	95.5		70 - 130
Chloroethane	10.0	11.7	117		70 - 130
Chloroform	10.0	9.75	97.5		70 - 130
Chloromethane	10.0	5.11	51.1	*	70 - 130
cis-1,2-Dichloroethylene	10.0	10.0	100		70 - 130
cis-1,3-Dichloropropylene	10.0	10.5	105		70 - 130
Cyclohexane	10.0	10.6	106		70 - 130
Dibromochloromethane	10.0	8.68	86.8		70 - 130
Dichlorodifluoromethane	10.0	8.91	89.1		70 - 130
Ethyl acetate	10.0	9.50	95.0		70 - 130
Ethyl Benzene	10.0	9.94	99.4		70 - 130
Hexachlorobutadiene	10.0	6.30	63.0	*	70 - 130
Isopropanol	10.0	9.01	90.1		70 - 130
Methyl Methacrylate	10.0	9.91	99.1		70 - 130
Methyl tert-butyl ether (MTBE)	10.0	10.4	104		70 - 130
Methylene chloride	10.0	9.41	94.1		70 - 130
n-Heptane	10.0	10.4	104		70 - 130
n-Hexane	10.0	10.2	102		70 - 130
o-Xylene	10.0	10.0	100		70 - 130
p- & m- Xylenes	20.0	19.8	98.8		70 - 130
p-Ethyltoluene	10.0	10.6	106		70 - 130
Propylene	10.0	9.07	90.7		70 - 130
Styrene	10.0	10.7	107		70 - 130
Tetrachloroethylene	10.0	9.83	98.3		70 - 130
Tetrahydrofuran	10.0	9.81	98.1		70 - 130
Toluene	10.0	9.40	94.0		70 - 130
trans-1,2-Dichloroethylene	10.0	9.93	99.3		70 - 130

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1901
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E.149th St. Bronx, NY
Matrix:	Air		
Batch:	BL30340	Laboratory ID:	BL30340-BS1
Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL

COMPOUND	SPIKE ADDED (ppbv)	LCS CONCENTRATION (ppbv)	LCS % REC. #		QC LIMITS REC.
trans-1,3-Dichloropropylene	10.0	10.2	102		70 - 130
Trichloroethylene	10.0	9.85	98.5		70 - 130
Trichlorofluoromethane (Freon 11)	10.0	9.62	96.2		70 - 130
Vinyl acetate	10.0	8.66	86.6		70 - 130
Vinyl bromide	10.0	10.3	103		70 - 130
Vinyl Chloride	10.0	4.43	44.3	*	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM I

METHOD BLANK DATA SHEET

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23K1901
Client:	Touchstone Environmental Geology, PC			Project:	220293 100 E.149th St. Bronx, NY
Matrix:	Air	Laboratory ID:	BL30340-BLK1	File ID:	TO301734.D
Prepared:	12/05/23 09:00	Preparation:	EPA TO15 PREP	Initial/Final:	400 mL / 400 mL
Analyzed:	12/05/23 13:10	Instrument:	5975C		
Batch:	BL30340	Sequence:	S3L0843	Calibration:	SK30035

CAS NO.	COMPOUND	CONC. (ug/m³)	Q
630-20-6	1,1,1,2-Tetrachloroethane	0.69	U
71-55-6	1,1,1-Trichloroethane	0.55	U
79-34-5	1,1,2,2-Tetrachloroethane	0.69	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.77	U
79-00-5	1,1,2-Trichloroethane	0.55	U
75-34-3	1,1-Dichloroethane	0.40	U
75-35-4	1,1-Dichloroethylene	0.099	U
120-82-1	1,2,4-Trichlorobenzene	0.74	U
95-63-6	1,2,4-Trimethylbenzene	0.49	U
106-93-4	1,2-Dibromoethane	0.77	U
95-50-1	1,2-Dichlorobenzene	0.60	U
107-06-2	1,2-Dichloroethane	0.40	U
78-87-5	1,2-Dichloropropane	0.46	U
76-14-2	1,2-Dichlorotetrafluoroethane	0.70	U
108-67-8	1,3,5-Trimethylbenzene	0.49	U
106-99-0	1,3-Butadiene	0.66	U
541-73-1	1,3-Dichlorobenzene	0.60	U
142-28-9	1,3-Dichloropropane	0.46	U
106-46-7	1,4-Dichlorobenzene	0.60	U
123-91-1	1,4-Dioxane	0.72	U
78-93-3	2-Butanone	0.29	U
591-78-6	2-Hexanone	0.82	U
107-05-1	3-Chloropropene	1.6	U
108-10-1	4-Methyl-2-pentanone	0.41	U
67-64-1	Acetone	0.48	U
107-13-1	Acrylonitrile	0.43	
71-43-2	Benzene	0.32	U
100-44-7	Benzyl chloride	0.52	U
75-27-4	Bromodichloromethane	0.67	U
75-25-2	Bromoform	1.0	U

SECOND-SOURCE CALIBRATION VERIFICATION

EPA TO-15

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 23K1901
Client: Touchstone Environmental Geology, PC
Project: 220293 100 E.149th St. Bronx, NY
Calibration: SK30035
Laboratory ID: S3K2039-SCV1
Sequence: S3K2039
Standard ID: S23K260

ANALYTE	EXPECTED (ppbv)	FOUND (ppbv)	% DIFF	QC LIMIT
1,1,1,2-Tetrachloroethane	10.0	11.0	9.9	30.00
1,1,1-Trichloroethane	10.0	11.1	10.9	30.00
1,1,2,2-Tetrachloroethane	10.0	10.5	4.9	30.00
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.0	10.7	7.2	30.00
1,1,2-Trichloroethane	10.0	11.0	9.5	30.00
1,1-Dichloroethane	10.0	10.2	1.6	30.00
1,1-Dichloroethylene	10.0	11.1	10.6	30.00
1,2,4-Trichlorobenzene	10.0	6.93	-30.7 *	30.00
1,2,4-Trimethylbenzene	10.0	11.4	14.4	30.00
1,2-Dibromoethane	10.0	10.9	9.0	30.00
1,2-Dichlorobenzene	10.0	11.3	13.0	30.00
1,2-Dichloroethane	10.0	10.7	6.9	30.00
1,2-Dichloropropane	10.0	10.5	4.7	30.00
1,2-Dichlorotetrafluoroethane	10.0	8.93	-10.7	30.00
1,3,5-Trimethylbenzene	10.0	11.4	14.4	30.00
1,3-Butadiene	10.0	8.81	-11.9	30.00
1,3-Dichlorobenzene	10.0	9.42	-5.8	30.00
1,3-Dichloropropane	10.0	10.6	5.6	30.00
1,4-Dichlorobenzene	10.0	9.16	-8.4	30.00
1,4-Dioxane	10.0	8.80	-12.0	30.00
2-Butanone	10.0	9.96	-0.4	30.00
2-Hexanone	10.0	10.2	2.2	30.00
3-Chloropropene	10.0	11.1	11.0	30.00
4-Methyl-2-pentanone	10.0	10.3	2.7	30.00
Acetone	10.0	10.2	2.2	30.00
Acrylonitrile	10.0	10.2	1.9	30.00
Benzene	10.0	10.5	5.4	30.00

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1901
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E.149th St. Bronx, NY
Instrument ID:	5975C	Calibration:	SK30035
Lab File ID:	TO301731.D	Calibration Date:	11/16/23 23:59
Sequence:	S3L0843	Injection Date:	12/05/23
Lab Sample ID:	S3L0843-CCV1	Injection Time:	10:34

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1,1,2-Tetrachloroethane	A	10.0	10.4	0.5551326	0.5747391		3.5	30	
1,1,1-Trichloroethane	A	10.0	9.79	1.7062	1.67036		-2.1	30	
1,1,2,2-Tetrachloroethane	A	10.0	10.6	0.9276462	0.9869424		6.4	30	
1,1,2-Trichloro-1,2,2-trifluoroeth ane (Freon 113)	A	10.0	9.58	1.688379	1.618213		-4.2	30	
1,1,2-Trichloroethane	A	10.0	10.1	0.3886309	0.3934486		1.2	30	
1,1-Dichloroethane	A	10.0	9.77	1.423984	1.390872		-2.3	30	
1,1-Dichloroethylene	A	10.0	10.1	1.195374	1.204489		0.8	30	
1,2,4-Trichlorobenzene	A	10.0	7.48	0.6983245	0.7359574		-25.2	30	
1,2,4-Trimethylbenzene	A	10.0	11.4	1.431166	1.636279		14.3	30	
1,2-Dibromoethane	A	10.0	10.6	0.5992027	0.6333003		5.7	30	
1,2-Dichlorobenzene	A	10.0	11.5	1.000172	1.154357		15.4	30	
1,2-Dichloroethane	A	10.0	9.42	1.085911	1.022786		-5.8	30	
1,2-Dichloropropane	A	10.0	9.98	0.3355121	0.3349696		-0.2	30	
1,2-Dichlorotetrafluoroethane	A	10.0	7.52	2.379174	1.788453		-24.8	30	
1,3,5-Trimethylbenzene	A	10.0	11.2	1.392073	1.553569		11.6	30	
1,3-Butadiene	A	10.0	3.78	0.5305385	0.2007999		-62.2	30	*
1,3-Dichlorobenzene	A	10.0	9.38	0.9685556	1.141428		-6.2	30	
1,3-Dichloropropane	A	10.0	10.4	0.523649	0.5441458		3.9	30	
1,4-Dichlorobenzene	A	10.0	9.29	0.9399349	1.142224		-7.1	30	
1,4-Dioxane	A	10.0	9.76	0.1999626	0.1952363		-2.4	30	
2-Butanone	A	10.0	9.62	1.673053	1.609501		-3.8	30	
2-Hexanone	A	10.0	10.3	0.6535476	0.6718891		2.8	30	
3-Chloropropene	A	10.0	10.4	0.9377073	0.9798613		4.5	30	
4-Methyl-2-pentanone	A	10.0	10.3	0.6963391	0.719293		3.3	30	
Acetone	A	10.0	9.19	1.492169	1.112692		-8.1	30	
Acrylonitrile	A	10.0	9.83	0.9341119	0.6192925		-1.7	30	
Benzene	A	10.0	10.1	2.422807	2.440802		0.7	30	
Benzyl chloride	A	10.0	10.0	0.2522642	0.3277327		0.0	30	
Bromodichloromethane	A	10.0	10.0	0.645946	0.6481275		0.3	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1901
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E.149th St. Bronx, NY
Instrument ID:	5975C	Calibration:	SK30035
Lab File ID:	TO301731.D	Calibration Date:	11/16/23 23:59
Sequence:	S3L0843	Injection Date:	12/05/23
Lab Sample ID:	S3L0843-CCV1	Injection Time:	10:34

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Bromoform	A	10.0	11.2	0.7626604	0.8570864		12.4	30	
Bromomethane	A	10.0	9.75	0.758018	0.7391327		-2.5	30	
Carbon disulfide	A	10.0	10.2	2.235845	2.27058		1.6	30	
Carbon tetrachloride	A	10.0	10.7	1.751867	1.82848		4.4	30	
Chlorobenzene	A	10.0	10.0	0.9820322	0.9831273		0.1	30	
Chloroethane	A	10.0	11.4	0.3293549	0.3767509		14.4	30	
Chloroform	A	10.0	9.71	1.708433	1.658362		-2.9	30	
Chloromethane	A	10.0	5.30	0.6445378	0.3418877		-47.0	30	*
cis-1,2-Dichloroethylene	A	10.0	10.1	1.046735	1.053553		0.7	30	
cis-1,3-Dichloropropylene	A	10.0	10.7	0.4687606	0.5016069		7.0	30	
Cyclohexane	A	10.0	10.7	1.165255	1.24722		7.0	30	
Dibromochloromethane	A	10.0	10.7	0.7235579	0.7768165		7.4	30	
Dichlorodifluoromethane	A	10.0	8.61	2.537906	2.185578		-13.9	30	
Ethyl acetate	A	10.0	9.72	1.865602	1.813592		-2.8	30	
Ethyl Benzene	A	10.0	10.5	1.494633	1.568275		4.9	30	
Hexachlorobutadiene	A	10.0	7.10	1.106759	1.179626		-29.0	30	
Isopropanol	A	10.0	9.01	5.980418	1.508819		-9.9	30	
Methyl Methacrylate	A	10.0	10.9	0.3015707	0.3275775		8.6	30	
Methyl tert-butyl ether (MTBE)	A	10.0	10.1	1.980175	2.004454		1.2	30	
Methylene chloride	A	10.0	9.51	0.9557086	0.909341		-4.9	30	
n-Heptane	A	10.0	10.7	1.428105	1.530496		7.2	30	
n-Hexane	A	10.0	10.2	1.145373	1.172782		2.4	30	
o-Xylene	A	10.0	10.8	1.144653	1.237539		8.1	30	
p- & m- Xylenes	A	20.0	21.1	1.148074	1.213714		5.7	30	
p-Ethyltoluene	A	10.0	11.8	1.654348	1.950724		17.9	30	
Propylene	A	10.0	9.23	0.5256244	0.4852902		-7.7	30	
Styrene	A	10.0	11.6	0.8638931	1.005373		16.4	30	
Tetrachloroethylene	A	10.0	10.1	0.6309245	0.636968		1.0	30	
Tetrahydrofuran	A	10.0	10.2	0.9321463	0.9544928		2.4	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA TO-15

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	23K1901
Client:	Touchstone Environmental Geology, PC	Project:	220293 100 E.149th St. Bronx, NY
Instrument ID:	5975C	Calibration:	SK30035
Lab File ID:	TO301731.D	Calibration Date:	11/16/23 23:59
Sequence:	S3L0843	Injection Date:	12/05/23
Lab Sample ID:	S3L0843-CCV1	Injection Time:	10:34

		CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Toluene	A	10.0	9.96	1.095633	1.090799		-0.4	30
trans-1,2-Dichloroethylene	A	10.0	10.0	1.117445	1.118216		0.07	30
trans-1,3-Dichloropropylene	A	10.0	10.6	0.4351728	0.461988		6.2	30
Trichloroethylene	A	10.0	10.1	0.3960734	0.3998787		1.0	30
Trichlorofluoromethane (Freon 11)	A	10.0	9.24	2.11582	1.95557		-7.6	30
Vinyl acetate	A	10.0	8.86	1.952946	1.730812		-11.4	30
Vinyl bromide	A	10.0	9.67	0.7528102	0.728095		-3.3	30
Vinyl Chloride	A	10.0	3.92	0.8022805	0.3142361		-60.8	30 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

DATA USABILITY SUMMARY REPORT (DUSR)

100 East 149th Street
Bronx, NY 10451
Project # C203159

SDG: 24A0923
10 Water Samples and 1 Field Blank

Prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road
Suite 205
Centereach, NY 11720
Attention: Rachel Ataman

February 2024

EDU *Environmental Data Usability* *10028 Deer Park Dr. Dansville, NY 14437 585-991-9156*

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REVIEWER'S NARRATIVE
Touchstone Environmental SDG 24A0923 – 100 East 149th Street

The data associated with this Sample Delivery Group (SDG) 24A0923, analyzed by York Analytical Laboratories, Stratford, CT have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 2/20/2024

Michael K. Perry
Chemist

1.0 EVENT SUMMARY

SITE:	100 East 149th Street Bronx, NY 10451 NYS DEC #: C203159
SAMPLING DATE:	January 12, 2024
SAMPLE TYPE:	10 water samples and 1 field blank
LABORATORY:	York Analytical Laboratories Stratford, CT
SDG No.:	24A0923

2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

3.0 SAMPLE AND ANALYSIS SUMMARY

The data package consists of analytical results for 10 water samples and 1 field blank collected on January 12, 2024. These samples were analyzed for PFASs.

All laboratory analyses were submitted to York Analytical Laboratories, Stratford, CT and analyzed as SDG 24A0923. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA

The guidance documents appropriate for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results were selected from those listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

5.0 DATA VALIDATION QUALIFIERS

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

TABLE 4-1

Guidance Used For Validating Laboratory Analytical Data

Analyte Group	Guidance	Date
Metals (ICP-AES)	USEPA SOP HW-3a, Rev. 1	September 2016
Metals (Hg & CN)	USEPA SOP HW-3c, Rev. 1	September 2016
Volatile Organic Compounds (by Methods 8260B & 8260C)	USEPA SOP HW-24, Rev. 4	September 2014
Semi-Volatile Organic Compounds (by Method 8270D)	USEPA SOP HW-22 Rev. 5	December 2010
Pesticides (by Method 8181B)	USEPA SOP HW-44, Rev. 1.1	December 2010
Chlorinated Herbicides (by Method 8151A)	USEPA SOP HW-17, Rev. 3.1	December 2010
Polychlorinated Biphenyls (PCBs)	USEPA SOP HW-37A, Rev. 0	June 2015
Volatile Organic Compounds (Air) (by Method TO-15)	USEPA SOP HW-31, Rev. 6	September 2016
Per- and PolyFluoroAlkyl Substances (PFAS)	* NYSDEC ** US Dept. of Defense	January 2021 November 2022
Radiological Analysis		
Uranium	USEPA Method 908.0	June 1999
Radium-226	USEPA Method 903.1	1980
General Chemistry Parameters	per NYSDEC ASP	July 2005

* Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, Appendix I

** Data Validation Guidelines Module 6: Data Validatioin Procedures for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24

TABLE 4-2

QUALITY CONTROL CRITERIA USED FOR VALIDATING LABORATORY ANALYTICAL DATA

VOCs	SVOCs	Pesticides/PCBs	Metals	Gen Chemistry	PFAS
Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation	Sample Preservation
Holding Time	Holding Time	Holding Time	Holding Time	Holding Times	Holding Time
System Monitoring Compounds	Surrogate Recoveries	Surrogate Recoveries	Initial/Continuing Calibration	Calibration	Instr Performance Check
Lab Control Sample	Lab Control Sample	Matrix Spikes	CRDL Standards	Lab Control Samples	Initial Calibration
Matrix Spikes	Matrix Spikes	Blanks	Blanks	Blanks	Continuing Calibration
Blanks	Blanks	Instrument Calibration & Verification	Interference Check Sample	Spike Recoveries	Blanks
Instrument Tuning	Instrument Tuning	Comparison of duplicate GC column results	Spike Recoveries	Lab Duplicates	Surrogates
Internal Standards	Internal Standards	Analyte ID	Lab Duplicate		Lab Fortified Blank
Initial Calibration	Initial Calibration	Lab Qualifiers	Lab Control Sample		Matrix Spikes
Continuing Calibration	Continuing Calibration	Field Duplicate	ICP Serial Dilutions		Internal Standards
Lab Qualifiers	Lab Qualifiers		Lab Qualifiers		
Field Duplicate	Field Duplicate		Field Duplicate		

Method TO-15 (Air)	Radiological (U and Ra)
Completeness of Pkg	Completeness of Pkg
Sample Preservation	Sample Preservation
Holding Time	Holding Time
Canister Certification	Sample Specific Yield
Instrument Tuning	Required Detection Limit
Initial Calibration and Instrument Performance	Laboratory Control Sample
	Matrix Spikes
Daily Calibration	Method Blank
Blanks	Instrument Calibration
Lab Control Sample	
Field Duplicate	

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

NOTE: The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

U The analyte was analyzed for but was not detected at or above the sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any ± value associated with the result is not determined by data validation).

J+ The result is an estimated quantity and may be biased high.

J- The result is an estimated quantity and may be biased low.

UJ The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated in red print. Data sheets having qualified data are signed and dated by the data reviewer.

6.0 RESULTS OF THE DATA REVIEW

The results of the analytical data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

7.0 TOTAL USABLE DATA

For SDG 24A0923, eleven samples were analyzed and results were reported for 440 analytes. Even though some results were flagged with a "J" as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and qualified and the associated QC reasons.

Table 6-1 PFASs

SAMPLES AFFECTED	ANALYTES	ACTION	QC VIOLATION	COMMENTS
All samples	All analytes (except PFDoA and N-EtFOSA	J detects UJ non-detect	ICV % D > QC limit	Data are estimated
All samples	PFBA	J detects UJ non-detect	Sur rec < QC limits	Data are estimated
23MW-2 23MW-8 23MW-10 FB	PFPeA	J detects UJ non-detect	Sur rec < QC limits	Data are estimated
23MW-5	N-MeFOSA N-EtFOSA N-EtFOSE N-MeFOSE	J detects UJ non-detect	Sur rec < QC limits	Data are estimated
23MW-9	PFHxA PFHpA HFPO-DA PFPeA	J detects UJ non-detect	Sur rec < QC limits	Data are estimated
23MW-3 23MW-4 23MW-6 23MW-7	PFHxA	J detects UJ non-detect	IS area < QC limits	Data are estimated
23MW-5	PFDA	J detects	IS area > QC limits	Data are estimated
All samples	4:2 FTS 8:2 FTS	J detects UJ non-detect	Qual COD < 0.995	Data are estimated
All samples	9CL-PF3ONS N-EtFOSA	J detects UJ non-detect	CCV % D > QC limit	Data are estimated

23MW-1 23MW-2 23MW-3 23MW-4 23MW-5 23MW-6	N-EtFOSE	J detects UJ non-detect	CCV % D > QC limit	Data are estimated

ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

Appendix A

Validated Analytical Results

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 01/30/2024
Client Project ID: 100 East 149th Street
York Project (SDG) No.: 24A0923

Work Order Narrative

York Analytical Work Order No.: 24A0923

Client : Touchstone Environmental Geology, PC

Client Project ID : 100 East 149th Street

Prepared for : Rachel Ataman

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 01/16/2024 4:30 PM

11 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable (<= 6 °C)
and documented as: **{1.4}°C**

Sample Summary

SampleName	Lab Number	Matrix	Date Collected	Date Received
23MW-1	24A0923-01	Water	01/12/2024 9:15 AM	01/16/2024 4:30 PM
23MW-2	24A0923-02	Water	01/12/2024 9:45 AM	01/16/2024 4:30 PM
23MW-3	24A0923-03	Water	01/12/2024 10:10 AM	01/16/2024 4:30 PM
23MW-4	24A0923-04	Water	01/12/2024 10:30 AM	01/16/2024 4:30 PM
23MW-5	24A0923-05	Water	01/12/2024 11:00 AM	01/16/2024 4:30 PM
23MW-6	24A0923-06	Water	01/12/2024 11:20 AM	01/16/2024 4:30 PM
23MW-7	24A0923-07	Water	01/12/2024 11:45 AM	01/16/2024 4:30 PM
23MW-8	24A0923-08	Water	01/12/2024 12:00 PM	01/16/2024 4:30 PM
23MW-9	24A0923-09	Water	01/12/2024 12:20 PM	01/16/2024 4:30 PM
23MW-10	24A0923-10	Water	01/12/2024 12:50 PM	01/16/2024 4:30 PM
FB	24A0923-11	Water	01/12/2024 9:15 AM	01/16/2024 4:30 PM

WorkOrder Comments

2.0 Methodology

Analysis Class	*Preparation Method*	*Analysis Methodology*
PFAS	EPA 1633 Prep	EPA 1633 Draft 3

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 24A0923

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number:

YOUR Project Name: 100 East 149 St. The Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Fyrat Hamon

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York ✓
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23MW-1	GW	1/12/24 9:15	PFAS via 537 Modified	2 PFAS 500	ml.
~~23MW-2~~ 23MW-2		9:45			
23MW-3		10:10			
23MW-4		10:30			
23MW-5		11:00			
23MW-6		11:20			
23MW-7		11:45			
23MW-8		12:00			
23MW-9		12:20			
23MW-10		12:50			

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other: ____

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	1/16/24 1500 PM	Kathyrk	1/16/24 1501 PM	K Baker York	1/16/24 1630
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					1/16/24 1630 / 1.4 Degrees C

York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
CLASS: PFAS
METHOD: EPA 1633 Draft 3

DATA PACKAGE COVER PAGE

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford

SDG: 24A0923

Client: Touchstone Environmental Geology, PC

Project: 100 East 149th Street

Client Sample Id:	Lab Sample Id:
23MW-1	24A0923-01
23MW-2	24A0923-02
23MW-3	24A0923-03
23MW-4	24A0923-04
23MW-5	24A0923-05
23MW-6	24A0923-06
23MW-7	24A0923-07
23MW-8	24A0923-08
23MW-9	24A0923-09
23MW-10	24A0923-10
FB	24A0923-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the project narrative. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the

Signature:

Name: Cassie L. Mosher

Date: 1/29/2024

Title: Laboratory Manager

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24A0923

Client: Touchstone Environmental Geology, PC Project: 100 East 149th Street

Matrix: Ground Water Laboratory ID: 24A0923-01 File ID: QQQ34584.d

Sampled: 01/12/24 09:15 Prepared: 01/19/24 14:51 Analyzed: 01/19/24 20:19

Solids: Preparation: EPA 1633 Prep Initial/Final: 507.13 mL / 5 mL

Batch: BA41229 Sequence: S4A1939 Calibration: SL30021 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	2.48		J
307-24-4	Perfluorohexanoic acid (PFHxA)	1	3.80		J
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	2.58		J
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.80	U	UJ
335-67-1	Perfluorooctanoic acid (PFOA)	1	3.58		J
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	31.7		J
375-95-1	Perfluorononanoic acid (PFNA)	1	1.62	J	J
335-76-2	Perfluorodecanoic acid (PFDA)	1	0.979	J	J
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.97	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.97	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.97	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.97	U	UJ
2355-31-9	N-MeFOSAA	1	1.97	U	UJ
2991-50-6	N-EtFOSAA	1	1.97	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	4.07		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.97	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.88	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.90	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.49	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.57	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	7.89	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.51	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.94	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.94	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.94	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.85	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.39	U	
13252-13-6	HFPO-DA (Gen-X)	1	7.89	U	
763051-92-9	11CL-PF3OUdS	1	7.45	U	
756426-58-1	9CL-PF3ONS	1	7.37	U	
919005-14-4	ADONA	1	7.45	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.91	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.89	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.93	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	24.6	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	24.6	U	
24448-09-7	N-MeFOSE	1	19.7	U	
31506-32-8	N-MeFOSA	1	1.97	U	
1691-99-2	N-EtFOSE	1	19.7	U	
4151-50-2	N-EtFOSA	1	1.97	U	

MKP 2/20/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-01	File ID:	QQQ34584.d
Sampled:	01/12/24 09:15	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:19
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	507.13 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	19.1	23.7	124	25 - 150	
M5PFHxA	20.6	29.5	144	25 - 150	
M4PFHpA	20.6	23.7	115	25 - 150	
M3PFHxS	19.5	25.2	130	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.6	25.3	123	25 - 150	
M6PFDA	10.3	13.1	128	25 - 150	
M7PFUdA	10.3	12.6	123	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.3	10.3	101	25 - 150	
M2PFTeDA	10.3	5.24	51.1	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	82.3	3.47	4.21	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.7	28.5	145	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	41.1	23.8	58.0	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.6	25.3	123	10 - 150	
d3-N-MeFOSAA	41.1	44.1	107	25 - 150	
d5-N-EtFOSAA	41.1	44.9	109	25 - 150	
M2-6:2 FTS	39.0	91.0	233	25 - 200	*
M2-8:2 FTS	39.4	68.4	173	25 - 200	
M9PFNA	10.3	14.0	136	25 - 150	
M2-4:2 FTS	38.6	112	291	25 - 150	*
d-N-MeFOSA	20.6	13.4	65.2	25 - 150	
d-N-EtFOSA	20.6	14.1	68.4	25 - 150	
M3HFPO-DA	82.3	109	132	25 - 150	
d9-N-EtFOSE	206	97.8	47.6	25 - 150	
d7-N-MeFOSE	206	133	64.7	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	20337.15	1.271367	27167.95	1.179567	
MPFDA	8843.449	8.59685	11685.44	8.559783	
MPFHxA	25325.94	6.066566	40441.97	6.048083	
MPFHxS	2923.15	6.907817	4054.263	6.898567	
MPFNA	12814.14	8.050283	19220.08	8.022433	
MPFOA	30690.34	7.455667	40777.55	7.437133	
MPFOS	6986.254	8.0767	9177.969	8.05815	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3900.424	8.049916	3513.754	8.022083	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	26310.36	7.4553	25288.3	7.43675	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	33214.53	4.4591	76978.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	3534.291	1.27825	108194.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	14441.13	9.5592	16241.6	9.512617	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-01	File ID:	QQQ34584.d
Sampled:	01/12/24 09:15	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:19
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	507.13 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3498.198	8.08545	3194.697	8.057616	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10396.49	9.09185	9685.068	9.06405	
M7PFUdA-EIS	18984.46	9.096867	19163.46	9.05985	
M6PFDA-EIS	12977.38	8.596467	12495.23	8.5594	
M5PFHxA-EIS	47155.57	6.065383	45848.68	6.0469	
M4PFHpA-EIS	5322.778	6.816683	6006.691	6.7982	
M3PFHxS-EIS	8892.626	6.908283	8388.116	6.889783	
M3PFBS-EIS	13134.11	5.270233	12696.6	5.233333	
M3-HFPO-DA-EIS	29696.48	6.337067	35388.96	6.31855	
M2PFTeDA-EIS	4775.081	10.32235	8963.919	10.2763	
M2-8-2FTS-EIS	30215.06	8.5586	26620.13	8.521533	
M2-6-2FTS-EIS	30810.96	7.3989	18040.06	7.380367	
M2-4-2FTS-EIS	53827.17	5.999516	28490.66	5.98105	
d9-NEtFOSE-EIS	1558.087	10.2886	2537.62	10.25175	
d7-NMeFOSE-EIS	4124.095	9.994066	5608.087	9.957383	
d5-NEtFOSA-EIS	628.1897	10.3372	812.3068	10.30037	
d5-N-EtFOSAA-EIS	15411.75	9.068117	16457.33	9.0308	
d3-NMeFOSA-EIS	962.2437	10.0261	1323.173	9.9892	
d3-N-MeFOSAA-EIS	19584.33	8.816767	19512.08	8.779233	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-02	File ID:	QQQ34585.d
Sampled:	01/12/24 09:45	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:35
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	502.17 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.76	U	UJ
307-24-4	Perfluorohexanoic acid (PFHxA)	1	22.5		J
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	12.2		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	2.83		
335-67-1	Perfluorooctanoic acid (PFOA)	1	13.0		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	13.0		
375-95-1	Perfluorononanoic acid (PFNA)	1	1.18	J	
335-76-2	Perfluorodecanoic acid (PFDA)	1	1.99	U	UJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.99	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.99	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.99	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.99	U	UJ
2355-31-9	N-MeFOSAA	1	1.99	U	UJ
2991-50-6	N-EtFOSAA	1	1.99	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	33.4		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.99	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.90	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.92	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.57	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.65	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	7.97	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.54	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.98	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.98	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.98	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.87	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.47	U	
13252-13-6	HFPO-DA (Gen-X)	1	7.97	U	
763051-92-9	11CL-PF3OUdS	1	7.53	U	
756426-58-1	9CL-PF3ONS	1	7.45	U	
919005-14-4	ADONA	1	7.53	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.93	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.91	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.98	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	24.9	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	24.9	U	
24448-09-7	N-MeFOSE	1	19.9	U	
31506-32-8	N-MeFOSA	1	1.99	U	
1691-99-2	N-EtFOSE	1	19.9	U	
4151-50-2	N-EtFOSA	1	1.99	U	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-02	File ID:	QQQ34585.d
Sampled:	01/12/24 09:45	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:35
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	502.17 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	19.3	23.8	123	25 - 150	
M5PFHxA	20.8	29.1	140	25 - 150	
M4PFHpA	20.8	21.6	104	25 - 150	
M3PFHxS	19.7	25.0	127	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.8	29.2	141	25 - 150	
M6PFDA	10.4	12.3	118	25 - 150	
M7PFUdA	10.4	10.6	102	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.4	11.1	107	25 - 150	
M2PFTeDA	10.4	6.64	64.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.1	2.44	2.94	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.9	27.2	137	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	41.5	8.85	21.3	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.8	25.5	123	10 - 150	
d3-N-MeFOSAA	41.5	48.3	116	25 - 150	
d5-N-EtFOSAA	41.5	52.2	126	25 - 150	
M2-6:2 FTS	39.4	74.5	189	25 - 200	
M2-8:2 FTS	39.8	60.7	152	25 - 200	
M9PFNA	10.4	13.9	134	25 - 150	
M2-4:2 FTS	38.9	91.3	234	25 - 150	*
d-N-MeFOSA	20.8	16.0	77.1	25 - 150	
d-N-EtFOSA	20.8	15.0	72.1	25 - 150	
M3HFPO-DA	83.1	113	136	25 - 150	
d9-N-EtFOSE	208	111	53.3	25 - 150	
d7-N-MeFOSE	208	152	73.4	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	19768.88	1.216283	27167.95	1.179567	
MPFDA	9778.034	8.606116	11685.44	8.559783	
MPFHxA	26445.5	6.057333	40441.97	6.048083	
MPFHxS	3062.235	6.917067	4054.263	6.898567	
MPFNA	14599.25	8.05955	19220.08	8.022433	
MPFOA	29351.38	7.464933	40777.55	7.437133	
MPFOS	6946.936	8.095266	9177.969	8.05815	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4355.127	8.0592	3513.754	8.022083	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	28813.56	7.464567	25288.3	7.43675	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	12770.91	4.393917	76978.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2400.648	1.223167	108194.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	17033.74	9.5777	16241.6	9.512617	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-2

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-02	File ID:	QQQ34585.d
Sampled:	01/12/24 09:45	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:35
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	502.17 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3227.638	8.094733	3194.697	8.057616	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10295.13	9.11055	9685.068	9.06405	
M7PFUdA-EIS	17509.95	9.115417	19163.46	9.05985	
M6PFDA-EIS	13304.82	8.605733	12495.23	8.5594	
M5PFHxA-EIS	48136.52	6.056133	45848.68	6.0469	
M4PFHpA-EIS	5025.055	6.825933	6006.691	6.7982	
M3PFHxS-EIS	9121.591	6.917533	8388.116	6.889783	
M3PFBS-EIS	13928.46	5.24255	12696.6	5.233333	
M3-HFPO-DA-EIS	32088.01	6.337067	35388.96	6.31855	
M2PFTeDA-EIS	6629.185	10.34077	8963.919	10.2763	
M2-8-2FTS-EIS	27784.86	8.567866	26620.13	8.521533	
M2-6-2FTS-EIS	26169.76	7.408183	18040.06	7.380367	
M2-4-2FTS-EIS	45403.32	5.990283	28490.66	5.98105	
d9-NEtFOSE-EIS	1734.77	10.31622	2537.62	10.25175	
d7-NMeFOSE-EIS	4655.215	10.01252	5608.087	9.957383	
d5-NEtFOSA-EIS	658.4449	10.35563	812.3068	10.30037	
d5-N-EtFOSAA-EIS	17646.76	9.08665	16457.33	9.0308	
d3-NMeFOSA-EIS	1133.542	10.04453	1323.173	9.9892	
d3-N-MeFOSAA-EIS	21137.22	8.82605	19512.08	8.779233	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-03	File ID:	QQQ34586.d
Sampled:	01/12/24 10:10	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:52
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	498.08 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	3.16		J
307-24-4	Perfluorohexanoic acid (PFHxA)	1	8.00		
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	4.16		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.65	J	
335-67-1	Perfluorooctanoic acid (PFOA)	1	11.1		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	15.3		
375-95-1	Perfluorononanoic acid (PFNA)	1	2.00	J	
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.01	U	UJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	2.01	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	2.01	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	2.01	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	2.01	U	UJ
2355-31-9	N-MeFOSAA	1	2.01	U	UJ
2991-50-6	N-EtFOSAA	1	2.01	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	9.24		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	2.01	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.92	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.94	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.63	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.71	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	8.03	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.57	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	4.02	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	4.02	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	4.02	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.89	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.53	U	
13252-13-6	HFPO-DA (Gen-X)	1	8.03	U	
763051-92-9	11CL-PF3OUdS	1	7.59	U	
756426-58-1	9CL-PF3ONS	1	7.51	U	
919005-14-4	ADONA	1	7.59	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.95	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.93	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	5.02	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	25.1	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	25.1	U	
24448-09-7	N-MeFOSE	1	20.1	U	
31506-32-8	N-MeFOSA	1	2.01	U	
1691-99-2	N-EtFOSE	1	20.1	U	
4151-50-2	N-EtFOSA	1	2.01	U	

MKP 2/20/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-03	File ID:	QQQ34586.d
Sampled:	01/12/24 10:10	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:52
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	498.08 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	19.5	22.4	115	25 - 150	
M5PFHxA	20.9	28.6	137	25 - 150	
M4PFHpA	20.9	23.6	113	25 - 150	
M3PFHxS	19.8	24.3	123	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.9	28.0	134	25 - 150	
M6PFDA	10.4	15.0	144	25 - 150	
M7PFUdA	10.4	13.6	131	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.4	11.8	113	25 - 150	
M2PFTeDA	10.4	8.27	79.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.8	4.76	5.68	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.0	25.7	128	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	41.8	58.7	140	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.9	23.6	113	10 - 150	
d3-N-MeFOSAA	41.8	44.6	107	25 - 150	
d5-N-EtFOSAA	41.8	48.2	115	25 - 150	
M2-6:2 FTS	39.8	90.7	228	25 - 200	*
M2-8:2 FTS	40.2	59.5	148	25 - 200	
M9PFNA	10.4	12.9	124	25 - 150	
M2-4:2 FTS	39.3	116	296	25 - 150	*
d-N-MeFOSA	20.9	18.7	89.5	25 - 150	
d-N-EtFOSA	20.9	14.1	67.5	25 - 150	
M3HFPO-DA	83.8	115	137	25 - 150	
d9-N-EtFOSE	209	110	52.4	25 - 150	
d7-N-MeFOSE	209	147	70.4	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	18920.78	1.234633	27167.95	1.179567	
MPFDA	7604.217	8.633917	11685.44	8.559783	
MPFHxA	19741.75	6.066566	40441.97	6.048083	*
MPFHxS	2905.934	6.926317	4054.263	6.898567	
MPFNA	12449.92	8.078116	19220.08	8.022433	
MPFOA	29253.64	7.474216	40777.55	7.437133	
MPFOS	6746.285	8.104533	9177.969	8.05815	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3436.953	8.068483	3513.754	8.022083	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	27263.51	7.473834	25288.3	7.43675	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	62383.42	4.393917	76978.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	4439.186	1.23235	108194.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	13943.82	9.633183	16241.6	9.512617	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-03	File ID:	QQQ34586.d
Sampled:	01/12/24 10:10	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 20:52
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	498.08 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2960.878	8.104	3194.697	8.057616	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	9186.25	9.14765	9685.068	9.06405	
M7PFUdA-EIS	17386.51	9.152534	19163.46	9.05985	
M6PFDA-EIS	12595.07	8.624267	12495.23	8.5594	
M5PFHxA-EIS	34959.8	6.065383	45848.68	6.0469	
M4PFHpA-EIS	4079.584	6.825933	6006.691	6.7982	
M3PFHxS-EIS	8366.972	6.9268	8388.116	6.889783	
M3PFBS-EIS	12319.86	5.251783	12696.6	5.233333	
M3-HFPO-DA-EIS	23966.31	6.337067	35388.96	6.31855	
M2PFTeDA-EIS	6364.106	10.41445	8963.919	10.2763	
M2-8-2FTS-EIS	25657.54	8.5864	26620.13	8.521533	
M2-6-2FTS-EIS	29995.07	7.41745	18040.06	7.380367	
M2-4-2FTS-EIS	54321.22	5.999516	28490.66	5.98105	
d9-NEtFOSE-EIS	1655.944	10.38068	2537.62	10.25175	
d7-NMeFOSE-EIS	4334.316	10.07705	5608.087	9.957383	
d5-NEtFOSA-EIS	598.7929	10.4293	812.3068	10.30037	
d5-N-EtFOSAA-EIS	15682.76	9.123734	16457.33	9.0308	
d3-NMeFOSA-EIS	1275.89	10.10907	1323.173	9.9892	
d3-N-MeFOSAA-EIS	18784.36	8.8547	19512.08	8.779233	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-04	File ID:	QQQ34676.d
Sampled:	01/12/24 10:30	Prepared:	01/19/24 14:51	Analyzed:	01/23/24 08:39
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	491.62 mL / 5 mL
Batch:	BA41229	Sequence:	S4A2232	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.80	U	UJ
307-24-4	Perfluorohexanoic acid (PFHxA)	1	4.34		J
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	2.03	U	UJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.785	J	J
335-67-1	Perfluorooctanoic acid (PFOA)	1	8.49		J
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	5.37		J
375-95-1	Perfluorononanoic acid (PFNA)	1	0.868	J	J
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.03	U	UJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	2.03	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	2.03	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	2.03	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	2.03	U	UJ
2355-31-9	N-MeFOSAA	1	2.03	U	UJ
2991-50-6	N-EtFOSAA	1	2.03	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	5.56		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	2.03	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.94	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.96	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.73	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.81	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	1300		J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.62	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	4.07	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	4.07	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	4.07	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.91	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.63	U	
13252-13-6	HFPO-DA (Gen-X)	1	87.3		J
763051-92-9	11CL-PF3OUdS	1	7.69	U	UJ
756426-58-1	9CL-PF3ONS	1	7.61	U	
919005-14-4	ADONA	1	7.69	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.97	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.95	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	5.09	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	25.4	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	25.4	U	
24448-09-7	N-MeFOSE	1	20.3	U	
31506-32-8	N-MeFOSA	1	2.03	U	
1691-99-2	N-EtFOSE	1	20.3	U	
4151-50-2	N-EtFOSA	1	2.03	U	

MKP 2/20/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-04	File ID:	QQQ34676.d
Sampled:	01/12/24 10:30	Prepared:	01/19/24 14:51	Analyzed:	01/23/24 08:39
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	491.62 mL / 5 mL
Batch:	BA41229	Sequence:	S4A2232	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	19.7	23.3	118	25 - 150	
M5PFHxA	21.2	29.9	141	25 - 150	
M4PFHpA	21.2	24.7	116	25 - 150	
M3PFHxS	20.1	24.0	119	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.2	29.6	140	25 - 150	
M6PFDA	10.6	12.8	121	25 - 150	
M7PFUdA	10.6	9.37	88.5	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.6	8.07	76.3	25 - 150	
M2PFTeDA	10.6	3.87	36.5	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	84.9	2.25	2.65	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.3	31.3	154	25 - 150	*
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.4	26.0	61.4	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.2	27.7	131	10 - 150	
d3-N-MeFOSAA	42.4	45.8	108	25 - 150	
d5-N-EtFOSAA	42.4	44.4	105	25 - 150	
M2-6:2 FTS	40.3	113	281	25 - 200	*
M2-8:2 FTS	40.7	76.6	188	25 - 200	
M9PFNA	10.6	10.6	100	25 - 150	
M2-4:2 FTS	39.8	109	275	25 - 150	*
d-N-MeFOSA	21.2	15.2	71.8	25 - 150	
d-N-EtFOSA	21.2	18.9	89.0	25 - 150	
M3HFPO-DA	84.9	112	132	25 - 150	
d9-N-EtFOSE	212	95.1	44.9	25 - 150	
d7-N-MeFOSE	212	116	54.6	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	18809.63	1.179567	25958.66	1.09695	
MPFDA	9397.599	8.652467	12986.63	8.800883	
MPFHxA	16189.72	6.03885	42679.59	6.094283	*
MPFHxS	3049.899	6.926317	4226.589	7.056883	
MPFNA	12949.55	8.10595	19260.82	8.275117	
MPFOA	25702.18	7.49275	40700.76	7.6516	
MPFOS	6282.575	8.14165	9185.858	8.310516	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	2894.23	8.1056	3490.469	8.2747	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	25036.24	7.492383	25511.6	7.661933	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	22380.83	4.384717	75237.34	4.311183	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2065.094	1.18645	92148.54	1.09465	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	11623.33	9.54995	15691.19	9.633183	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-04	File ID:	QQQ34676.d
Sampled:	01/12/24 10:30	Prepared:	01/19/24 14:51	Analyzed:	01/23/24 08:39
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	491.62 mL / 5 mL
Batch:	BA41229	Sequence:	S4A2232	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3225.899	8.141117	3372.294	8.309883	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	9928.752	9.138383	9691.45	9.258984	
M7PFUdA-EIS	14590.14	9.133984	17411.76	9.245417	
M6PFDA-EIS	13104.91	8.652066	15311.04	8.800533	
M5PFHxA-EIS	29629.2	6.0469	49461.19	6.093083	
M4PFHpA-EIS	3481.37	6.825933	7886.144	6.9473	
M3PFHxS-EIS	8399.75	6.9268	8816.032	7.057367	
M3PFBS-EIS	13309.29	5.233333	13678.93	5.2241	
M3-HFPO-DA-EIS	19009.38	6.327816	36596.2	6.401883	
M2PFTeDA-EIS	3629.511	10.23025	7244.486	10.2671	
M2-8-2FTS-EIS	34207.2	8.6142	23210.19	8.771733	
M2-6-2FTS-EIS	38695.79	7.435983	17244.87	7.594067	
M2-4-2FTS-EIS	53220.8	5.971817	28707.31	6.027233	
d9-NEtFOSE-EIS	1320.751	10.1965	2276.863	10.22412	
d7-NMeFOSE-EIS	3129.587	9.929183	4193.869	9.985033	
d5-NEtFOSA-EIS	734.8746	10.2359	819.3565	10.26353	
d5-N-EtFOSAA-EIS	13273.3	9.105166	14322.51	9.2259	
d3-NMeFOSA-EIS	952.8954	9.96155	1313.319	10.01688	
d3-N-MeFOSAA-EIS	17766.63	8.863983	16612.04	9.0039	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-5

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-05	File ID:	QQQ34588.d
Sampled:	01/12/24 11:00	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 21:24
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	539.43 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.64	U	UJ
307-24-4	Perfluorohexanoic acid (PFHxA)	1	6.97		J
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	4.68		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	0.796	J	
335-67-1	Perfluorooctanoic acid (PFOA)	1	6.90		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	14.5		
375-95-1	Perfluorononanoic acid (PFNA)	1	3.78		
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.16		
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.85	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.85	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.85	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.85	U	UJ
2355-31-9	N-MeFOSAA	1	1.85	U	UJ
2991-50-6	N-EtFOSAA	1	1.85	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	7.26		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.85	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.77	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.79	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.04	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.12	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	6.63	J	J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.30	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.71	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.71	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.71	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.74	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	6.95	U	
13252-13-6	HFPO-DA (Gen-X)	1	7.42	U	
763051-92-9	11CL-PF3OUdS	1	7.01	U	
756426-58-1	9CL-PF3ONS	1	6.93	U	
919005-14-4	ADONA	1	7.01	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.80	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.78	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.63	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	23.2	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	23.2	U	
24448-09-7	N-MeFOSE	1	18.5	U	
31506-32-8	N-MeFOSA	1	1.85	U	
1691-99-2	N-EtFOSE	1	18.5	U	
4151-50-2	N-EtFOSA	1	1.85	U	

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EPA 1633 Draft 3

23MW-5

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-05	File ID:	QQQ34588.d
Sampled:	01/12/24 11:00	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 21:24
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	539.43 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	18.0	11.2	62.4	25 - 150	
M5PFHxA	19.3	13.2	68.4	25 - 150	
M4PFHpA	19.3	8.93	46.2	25 - 150	
M3PFHxS	18.3	12.0	65.5	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	19.3	12.4	64.3	25 - 150	
M6PFDA	9.64	5.78	59.9	25 - 150	
M7PFUdA	9.64	4.53	47.0	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	9.64	3.69	38.3	25 - 150	
M2PFTeDA	9.64	1.25	13.0	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	77.4	7.04	9.09	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	18.5	13.8	74.5	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	38.6	26.7	69.2	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	19.3	10.4	54.0	10 - 150	
d3-N-MeFOSAA	38.6	22.0	56.9	25 - 150	
d5-N-EtFOSAA	38.6	20.0	51.9	25 - 150	
M2-6:2 FTS	36.7	49.1	134	25 - 200	
M2-8:2 FTS	37.1	30.1	81.1	25 - 200	
M9PFNA	9.64	6.52	67.6	25 - 150	
M2-4:2 FTS	36.2	57.8	160	25 - 150	*
d-N-MeFOSA	19.3	4.50	23.3	25 - 150	*
d-N-EtFOSA	19.3	4.01	20.7	25 - 150	*
M3HFPO-DA	77.4	46.8	60.5	25 - 150	
d9-N-EtFOSE	193	26.0	13.5	25 - 150	*
d7-N-MeFOSE	193	45.6	23.6	25 - 150	*

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	40953.12	1.225467	27167.95	1.179567	*
MPFDA	18379.08	8.62465	11685.44	8.559783	*
MPFHxA	54129.46	6.0758	40441.97	6.048083	
MPFHxS	5693.417	6.926317	4054.263	6.898567	
MPFNA	27153.85	8.068833	19220.08	8.022433	
MPFOA	58138.82	7.474216	40777.55	7.437133	
MPFOS	12794.54	8.104533	9177.969	8.05815	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	4094.511	8.068483	3513.754	8.022083	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	26057.82	7.473834	25288.3	7.43675	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	84273.8	4.4123	76978.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	15379.33	1.223167	108194.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	11419.44	9.58695	16241.6	9.512617	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-5

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-05	File ID:	QQQ34588.d
Sampled:	01/12/24 11:00	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 21:24
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	539.43 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3269.019	8.104	3194.697	8.057616	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8354.729	9.119817	9685.068	9.06405	
M7PFUdA-EIS	15146.86	9.1247	19163.46	9.05985	
M6PFDA-EIS	12659.44	8.615	12495.23	8.5594	
M5PFHxA-EIS	48001.85	6.074616	45848.68	6.0469	
M4PFHpA-EIS	4555.017	6.835166	6006.691	6.7982	
M3PFHxS-EIS	8753.538	6.9268	8388.116	6.889783	
M3PFBS-EIS	13133.05	5.270233	12696.6	5.233333	
M3-HFPO-DA-EIS	29114.55	6.346334	35388.96	6.31855	
M2PFTeDA-EIS	2524.831	10.34998	8963.919	10.2763	
M2-8-2FTS-EIS	27509.47	8.577133	26620.13	8.521533	
M2-6-2FTS-EIS	34475.38	7.41745	18040.06	7.380367	
M2-4-2FTS-EIS	57451.34	6.008767	28490.66	5.98105	
d9-NEtFOSE-EIS	807.5059	10.32543	2537.62	10.25175	
d7-NMeFOSE-EIS	2756.266	10.03095	5608.087	9.957383	
d5-NEtFOSA-EIS	348.9425	10.37405	812.3068	10.30037	
d5-N-EtFOSAA-EIS	13393.85	9.105166	16457.33	9.0308	
d3-NMeFOSA-EIS	629.4439	10.05377	1323.173	9.9892	
d3-N-MeFOSAA-EIS	19040.76	8.845417	19512.08	8.779233	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-6

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-06	File ID:	QQQ34589.d
Sampled:	01/12/24 11:20	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 21:40
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	487.67 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	4.48		J
307-24-4	Perfluorohexanoic acid (PFHxA)	1	13.2		
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	8.66		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.99		
335-67-1	Perfluorooctanoic acid (PFOA)	1	11.9		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	1.04	J	
375-95-1	Perfluorononanoic acid (PFNA)	1	1.03	J	
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.05	U	UJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	2.05	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	2.05	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	2.05	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	2.05	U	UJ
2355-31-9	N-MeFOSAA	1	2.05	U	UJ
2991-50-6	N-EtFOSAA	1	2.05	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	14.4		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	2.05	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.96	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.98	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.79	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.87	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	460		J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.65	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	4.10	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	4.10	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	4.10	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.93	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.69	U	
13252-13-6	HFPO-DA (Gen-X)	1	8.20	U	
763051-92-9	11CL-PF3OUdS	1	7.75	U	
756426-58-1	9CL-PF3ONS	1	7.67	U	
919005-14-4	ADONA	1	7.75	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.99	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.97	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	5.13	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	25.6	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	25.6	U	
24448-09-7	N-MeFOSE	1	20.5	U	
31506-32-8	N-MeFOSA	1	2.05	U	
1691-99-2	N-EtFOSE	1	20.5	U	
4151-50-2	N-EtFOSA	1	2.05	U	

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EPA 1633 Draft 3

23MW-6

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-06	File ID:	QQQ34589.d
Sampled:	01/12/24 11:20	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 21:40
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	487.67 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	19.9	22.5	113	25 - 150	
M5PFHxA	21.4	29.9	140	25 - 150	
M4PFHpA	21.4	22.2	104	25 - 150	
M3PFHxS	20.2	24.6	121	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.4	29.8	139	25 - 150	
M6PFDA	10.7	13.0	122	25 - 150	
M7PFUdA	10.7	11.2	105	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.7	9.40	88.2	25 - 150	
M2PFTeDA	10.7	5.92	55.5	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	85.6	4.86	5.67	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.5	29.5	144	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.7	46.0	108	25 - 150	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.4	26.2	123	10 - 150	
d3-N-MeFOSAA	42.7	47.2	110	25 - 150	
d5-N-EtFOSAA	42.7	48.9	114	25 - 150	
M2-6:2 FTS	40.6	117	288	25 - 200	*
M2-8:2 FTS	41.0	77.1	188	25 - 200	
M9PFNA	10.7	13.9	130	25 - 150	
M2-4:2 FTS	40.1	119	297	25 - 150	*
d-N-MeFOSA	21.4	16.6	77.5	25 - 150	
d-N-EtFOSA	21.4	15.6	73.0	25 - 150	
M3HFPO-DA	85.6	119	139	25 - 150	
d9-N-EtFOSE	214	104	48.6	25 - 150	
d7-N-MeFOSE	214	151	70.9	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	18655.35	1.216283	27167.95	1.179567	
MPFDA	9853.135	8.615383	11685.44	8.559783	
MPFHxA	15855.08	6.057333	40441.97	6.048083	*
MPFHxS	2847.793	6.917067	4054.263	6.898567	
MPFNA	11999.36	8.068833	19220.08	8.022433	
MPFOA	23093.78	7.464933	40777.55	7.437133	
MPFOS	6418.181	8.095266	9177.969	8.05815	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3480.546	8.068483	3513.754	8.022083	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	22439.99	7.464567	25288.3	7.43675	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	38412.77	4.366333	76978.1	4.375533	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	4375.279	1.213983	108194.8	1.177267	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	14088.43	9.58695	16241.6	9.512617	

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EPA 1633 Draft 3

23MW-6

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-06	File ID:	QQQ34589.d
Sampled:	01/12/24 11:20	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 21:40
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	487.67 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3162.499	8.094733	3194.697	8.057616	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	9522.551	9.119817	9685.068	9.06405	
M7PFUdA-EIS	18081.77	9.1247	19163.46	9.05985	
M6PFDA-EIS	13797.29	8.615	12495.23	8.5594	
M5PFHxA-EIS	28793.69	6.056133	45848.68	6.0469	
M4PFHpA-EIS	3003.896	6.825933	6006.691	6.7982	
M3PFHxS-EIS	8124.236	6.917533	8388.116	6.889783	
M3PFBS-EIS	11885.66	5.233333	12696.6	5.233333	
M3-HFPO-DA-EIS	19619.61	6.327816	35388.96	6.31855	
M2PFTeDA-EIS	5782.296	10.35918	8963.919	10.2763	
M2-8-2FTS-EIS	31858.81	8.577133	26620.13	8.521533	
M2-6-2FTS-EIS	37057.54	7.408183	18040.06	7.380367	
M2-4-2FTS-EIS	53436.48	5.990283	28490.66	5.98105	
d9-NEtFOSE-EIS	1463.405	10.33463	2537.62	10.25175	
d7-NMeFOSE-EIS	4150.152	10.03095	5608.087	9.957383	
d5-NEtFOSA-EIS	616.4015	10.37405	812.3068	10.30037	
d5-N-EtFOSAA-EIS	14817.43	9.105166	16457.33	9.0308	
d3-NMeFOSA-EIS	1050.559	10.06298	1323.173	9.9892	
d3-N-MeFOSAA-EIS	18521.38	8.835333	19512.08	8.779233	

* Values outside of QC limits

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ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-07	File ID:	QQQ34593.d
Sampled:	01/12/24 11:45	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 22:45
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	523.43 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	3.79		J
307-24-4	Perfluorohexanoic acid (PFHxA)	1	7.33		
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	13.9		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.72	J	
335-67-1	Perfluorooctanoic acid (PFOA)	1	22.4		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	6.90		
375-95-1	Perfluorononanoic acid (PFNA)	1	2.68		
335-76-2	Perfluorodecanoic acid (PFDA)	1	1.91	U	UJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.91	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.91	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.91	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.91	U	UJ
2355-31-9	N-MeFOSAA	1	1.91	U	UJ
2991-50-6	N-EtFOSAA	1	1.91	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	7.34		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.91	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.82	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.84	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.26	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.34	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	14.5		J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.40	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.82	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.82	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.82	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.80	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.16	U	
13252-13-6	HFPO-DA (Gen-X)	1	7.64	U	
763051-92-9	11CL-PF3OUdS	1	7.22	U	
756426-58-1	9CL-PF3ONS	1	7.15	U	
919005-14-4	ADONA	1	0.561	J	J
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.85	U	UJ
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.83	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.78	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	23.9	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	23.9	U	
24448-09-7	N-MeFOSE	1	19.1	U	
31506-32-8	N-MeFOSA	1	1.91	U	
1691-99-2	N-EtFOSE	1	19.1	U	
4151-50-2	N-EtFOSA	1	1.91	U	

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EPA 1633 Draft 3

23MW-7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-07	File ID:	QQQ34593.d
Sampled:	01/12/24 11:45	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 22:45
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	523.43 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	18.5	23.9	129	25 - 150	
M5PFHxA	19.9	27.1	136	25 - 150	
M4PFHpA	19.9	19.7	98.9	25 - 150	
M3PFHxS	18.9	23.4	124	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	19.9	27.6	138	25 - 150	
M6PFDA	9.93	13.6	137	25 - 150	
M7PFUdA	9.93	11.2	113	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	9.93	11.4	115	25 - 150	
M2PFTeDA	9.93	5.77	58.0	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	79.8	3.53	4.43	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.1	28.4	149	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	39.8	65.4	164	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	19.9	26.7	134	10 - 150	
d3-N-MeFOSAA	39.8	48.6	122	25 - 150	
d5-N-EtFOSAA	39.8	53.7	135	25 - 150	
M2-6:2 FTS	37.8	132	348	25 - 200	*
M2-8:2 FTS	38.2	102	267	25 - 200	*
M9PFNA	9.93	11.5	116	25 - 150	
M2-4:2 FTS	37.3	122	327	25 - 150	*
d-N-MeFOSA	19.9	15.9	79.7	25 - 150	
d-N-EtFOSA	19.9	15.5	78.0	25 - 150	
M3HFPO-DA	79.8	118	148	25 - 150	
d9-N-EtFOSE	199	102	51.2	25 - 150	
d7-N-MeFOSE	199	130	65.2	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	15397.04	1.2071	27183.86	1.188733	
MPFDA	7016.54	8.46675	12357.69	8.587584	
MPFHxA	12627.44	6.103517	39971.55	6.066566	*
MPFHxS	2646.242	6.917067	3968.243	6.917067	
MPFNA	10334.95	7.985133	17756.19	8.050283	
MPFOA	21163.43	7.437133	38671.69	7.455667	
MPFOS	5868.781	8.01175	9540.163	8.0767	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	2672.133	7.984766	3503.137	8.049916	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	20373.09	7.43675	25947.29	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	46703.06	4.4031	76769.46	4.384717	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	2822.734	1.2048	107703.8	1.18645	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	13065.7	9.308666	15715.08	9.5777	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-7

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-07	File ID:	QQQ34593.d
Sampled:	01/12/24 11:45	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 22:45
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	523.43 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2954.331	8.011217	2827.736	8.08545	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	9501.049	8.905184	8711.602	9.11055	
M7PFUdA-EIS	13850.93	8.9013	18871.01	9.10615	
M6PFDA-EIS	11028.81	8.466333	12492.45	8.5872	
M5PFHxA-EIS	22251.01	6.102334	46852.2	6.065383	
M4PFHpA-EIS	2279.021	6.825933	6022.506	6.816683	
M3PFHxS-EIS	7680.769	6.917533	8166.79	6.917533	
M3PFBS-EIS	12623.06	5.297917	13024.54	5.261017	
M3-HFPO-DA-EIS	16617.99	6.36485	33594.66	6.337067	
M2PFTeDA-EIS	4304.033	10.02742	9806.385	10.35918	
M2-8-2FTS-EIS	42021.32	8.437683	24184.56	8.549334	
M2-6-2FTS-EIS	41676.55	7.389633	17836.96	7.3989	
M2-4-2FTS-EIS	54729.76	6.036467	28059.14	5.999516	
d9-NEtFOSE-EIS	1408.573	10.0024	2795.468	10.33463	
d7-NMeFOSE-EIS	3491.685	9.724883	5738.218	10.03095	
d5-NEtFOSA-EIS	601.9762	10.05203	797.3231	10.38325	
d5-N-EtFOSAA-EIS	15981.35	8.881817	15978.39	9.077383	
d3-NMeFOSA-EIS	989.8187	9.748734	1360.193	10.0722	
d3-N-MeFOSAA-EIS	18737.09	8.658767	18786.19	8.807484	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-08	File ID:	QQQ34594.d
Sampled:	01/12/24 12:00	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:01
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	519.99 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	5.88		J
307-24-4	Perfluorohexanoic acid (PFHxA)	1	4.81		
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	4.46		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	2.29		
335-67-1	Perfluorooctanoic acid (PFOA)	1	12.3		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	17.0		
375-95-1	Perfluorononanoic acid (PFNA)	1	2.74		
335-76-2	Perfluorodecanoic acid (PFDA)	1	1.92	U	UJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.92	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.92	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.92	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.92	U	UJ
2355-31-9	N-MeFOSAA	1	1.92	U	UJ
2991-50-6	N-EtFOSAA	1	1.92	U	UJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	5.59		J
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.92	U	UJ
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.84	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.86	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.31	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.38	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	7.69	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.42	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.85	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.85	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.85	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.81	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.21	U	
13252-13-6	HFPO-DA (Gen-X)	1	7.69	U	
763051-92-9	11CL-PF3OUdS	1	7.27	U	
756426-58-1	9CL-PF3ONS	1	7.19	U	
919005-14-4	ADONA	1	7.27	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.87	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.85	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.81	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	24.0	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	24.0	U	
24448-09-7	N-MeFOSE	1	19.2	U	
31506-32-8	N-MeFOSA	1	1.92	U	
1691-99-2	N-EtFOSE	1	19.2	U	
4151-50-2	N-EtFOSA	1	1.92	U	

MKP 2/20/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-08	File ID:	QQQ34594.d
Sampled:	01/12/24 12:00	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:01
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	519.99 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	18.7	19.4	104	25 - 150	
M5PFHxA	20.0	24.2	121	25 - 150	
M4PFHpA	20.0	20.6	103	25 - 150	
M3PFHxS	19.0	23.0	121	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.0	24.9	124	25 - 150	
M6PFDA	10.0	11.5	115	25 - 150	
M7PFUdA	10.0	9.68	96.8	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.0	8.58	85.8	25 - 150	
M2PFTeDA	10.0	4.72	47.2	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	80.3	1.72	2.14	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.2	25.2	132	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	40.0	6.40	16.0	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.0	23.3	116	10 - 150	
d3-N-MeFOSAA	40.0	37.7	94.1	25 - 150	
d5-N-EtFOSAA	40.0	37.7	94.1	25 - 150	
M2-6:2 FTS	38.1	107	281	25 - 200	*
M2-8:2 FTS	38.5	63.6	165	25 - 200	
M9PFNA	10.0	10.3	103	25 - 150	
M2-4:2 FTS	37.6	102	271	25 - 150	*
d-N-MeFOSA	20.0	14.0	69.9	25 - 150	
d-N-EtFOSA	20.0	11.8	58.8	25 - 150	
M3HFPO-DA	80.3	91.0	113	25 - 150	
d9-N-EtFOSE	200	84.0	41.9	25 - 150	
d7-N-MeFOSE	200	110	54.8	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	20515.77	1.2989	27183.86	1.188733	
MPFDA	9861.002	8.46675	12357.69	8.587584	
MPFHxA	20413.19	6.140467	39971.55	6.066566	
MPFHxS	2961.839	6.907817	3968.243	6.917067	
MPFNA	14624.37	7.948	17756.19	8.050283	
MPFOA	27551.6	7.400033	38671.69	7.455667	
MPFOS	7152.386	7.983683	9540.163	8.0767	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3372.646	7.956933	3503.137	8.049916	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	23892.37	7.399667	25947.29	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	7335.746	4.55105	76769.46	4.384717	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	1818.704	1.2966	107703.8	1.18645	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	13725.15	9.373834	15715.08	9.5777	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-8

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-08	File ID:	QQQ34594.d
Sampled:	01/12/24 12:00	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:01
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	519.99 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3221.123	7.973866	2827.736	8.08545	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	10037.09	8.933033	8711.602	9.11055	
M7PFUdA-EIS	16724.44	8.947717	18871.01	9.10615	
M6PFDA-EIS	12995.82	8.466333	12492.45	8.5872	
M5PFHxA-EIS	31993.32	6.139266	46852.2	6.065383	
M4PFHpA-EIS	3835.891	6.825933	6022.506	6.816683	
M3PFHxS-EIS	8426.087	6.908283	8166.79	6.917533	
M3PFBS-EIS	11361.63	5.353267	13024.54	5.261017	
M3-HFPO-DA-EIS	20566.27	6.392633	33594.66	6.337067	
M2PFTeDA-EIS	4911.895	10.11962	9806.385	10.35918	
M2-8-2FTS-EIS	29182.36	8.428416	24184.56	8.549334	
M2-6-2FTS-EIS	37574.28	7.35225	17836.96	7.3989	
M2-4-2FTS-EIS	50663.47	6.073417	28059.14	5.999516	
d9-NEtFOSE-EIS	1403.881	10.08538	2795.468	10.33463	
d7-NMeFOSE-EIS	3576.587	9.79075	5738.218	10.03095	
d5-NEtFOSA-EIS	551.2909	10.12578	797.3231	10.38325	
d5-N-EtFOSAA-EIS	13573.54	8.918933	15978.39	9.077383	
d3-NMeFOSA-EIS	1057.154	9.822117	1360.193	10.0722	
d3-N-MeFOSAA-EIS	17579.13	8.6773	18786.19	8.807484	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-09	File ID:	QQQ34595.d
Sampled:	01/12/24 12:20	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:17
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	493.64 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	6.86	
307-24-4	Perfluorohexanoic acid (PFHxA)	1	8.89	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	3.55	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.93	
335-67-1	Perfluorooctanoic acid (PFOA)	1	5.14	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	10.3	
375-95-1	Perfluorononanoic acid (PFNA)	1	1.09	J
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.03	U
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	2.03	U
307-55-1	Perfluorododecanoic acid (PFDoA)	1	2.03	U
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	2.03	U
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	2.03	U
2355-31-9	N-MeFOSAA	1	2.03	U
2991-50-6	N-EtFOSAA	1	2.03	U
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	4.05	U
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	2.03	U
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.93	U
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.95	U
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.70	U
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.78	U
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	8.10	U
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.61	U
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	4.05	U
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	4.05	U
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	4.05	U
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.90	U
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.60	U
13252-13-6	HFPO-DA (Gen-X)	1	8.10	U
763051-92-9	11CL-PF3OUdS	1	7.66	U
756426-58-1	9CL-PF3ONS	1	7.58	U
919005-14-4	ADONA	1	0.625	J
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.96	U
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.94	U
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	5.06	U
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	25.3	U
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	25.3	U
24448-09-7	N-MeFOSE	1	20.3	U
31506-32-8	N-MeFOSA	1	2.03	U
1691-99-2	N-EtFOSE	1	20.3	U
4151-50-2	N-EtFOSA	1	2.03	U

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-09	File ID:	QQQ34595.d
Sampled:	01/12/24 12:20	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:17
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	493.64 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	19.6	2.66	13.6	25 - 150	*
M5PFHxA	21.1	3.12	14.8	25 - 150	*
M4PFHpA	21.1	6.88	32.6	25 - 150	
M3PFHxS	20.0	12.4	61.8	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.1	11.5	54.6	25 - 150	
M6PFDA	10.5	9.44	89.6	25 - 150	
M7PFUdA	10.5	9.73	92.4	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.5	10.4	98.5	25 - 150	
M2PFTeDA	10.5	6.64	63.0	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	84.6	1.04	1.23	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.2	21.6	107	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.2	0.812	1.92	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.1	19.2	90.9	10 - 150	
d3-N-MeFOSAA	42.2	36.8	87.3	25 - 150	
d5-N-EtFOSAA	42.2	41.1	97.5	25 - 150	
M2-6:2 FTS	40.1	35.1	87.6	25 - 200	
M2-8:2 FTS	40.5	41.8	103	25 - 200	
M9PFNA	10.5	6.44	61.1	25 - 150	
M2-4:2 FTS	39.6	10.8	27.2	25 - 150	
d-N-MeFOSA	21.1	15.2	72.1	25 - 150	
d-N-EtFOSA	21.1	13.5	64.0	25 - 150	
M3HFPO-DA	84.6	9.70	11.5	25 - 150	*
d9-N-EtFOSE	211	94.5	44.7	25 - 150	
d7-N-MeFOSE	211	131	62.2	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	17504.64	1.234633	27183.86	1.188733	
MPFDA	9315.829	8.485283	12357.69	8.587584	
MPFHxA	31020.6	6.131233	39971.55	6.066566	
MPFHxS	3257.42	6.898567	3968.243	6.917067	
MPFNA	14467.87	7.957283	17756.19	8.050283	
MPFOA	30658.03	7.40005	38671.69	7.455667	
MPFOS	7044.806	7.993183	9540.163	8.0767	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	1972.385	7.956933	3503.137	8.049916	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	11671.49	7.399667	25947.29	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	1344.582	4.505084	76769.46	4.384717	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	891.7706	1.23235	107703.8	1.18645	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	14881.09	9.392333	15715.08	9.5777	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-9

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-09	File ID:	QQQ34595.d
Sampled:	01/12/24 12:20	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:17
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	493.64 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2570.864	7.99265	2827.736	8.08545	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	7737.529	8.9516	8711.602	9.11055	
M7PFUdA-EIS	15082.6	8.9578	18871.01	9.10615	
M6PFDA-EIS	9598.404	8.48485	12492.45	8.5872	
M5PFHxA-EIS	5943.234	6.130033	46852.2	6.065383	
M4PFHpA-EIS	1845.281	6.816683	6022.506	6.816683	
M3PFHxS-EIS	4720.417	6.899034	8166.79	6.917533	
M3PFBS-EIS	1631.105	5.3625	13024.54	5.261017	
M3-HFPO-DA-EIS	3162.87	6.3741	33594.66	6.337067	
M2PFTeDA-EIS	6203.278	10.15658	9806.385	10.35918	
M2-8-2FTS-EIS	20022.99	8.44695	24184.56	8.549334	
M2-6-2FTS-EIS	12898.3	7.35225	17836.96	7.3989	
M2-4-2FTS-EIS	5600.147	6.064183	28059.14	5.999516	
d9-NEtFOSE-EIS	1477.508	10.11303	2795.468	10.33463	
d7-NMeFOSE-EIS	3999.226	9.818434	5738.218	10.03095	
d5-NEtFOSA-EIS	592.6793	10.15343	797.3231	10.38325	
d5-N-EtFOSAA-EIS	13856.11	8.9375	15978.39	9.077383	
d3-NMeFOSA-EIS	1074.01	9.8498	1360.193	10.0722	
d3-N-MeFOSAA-EIS	16076.06	8.695833	18786.19	8.807484	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24A0923

Client: Touchstone Environmental Geology, PC Project: 100 East 149th Street

Matrix: Ground Water Laboratory ID: 24A0923-10 File ID: QQQ34596.d

Sampled: 01/12/24 12:50 Prepared: 01/19/24 14:51 Analyzed: 01/19/24 23:33

Solids: Preparation: EPA 1633 Prep Initial/Final: 485.71 mL / 5 mL

Batch: BA41229 Sequence: S4A1939 Calibration: SL30021 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.82	U	UJ
307-24-4	Perfluorohexanoic acid (PFHxA)	1	6.89		J
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	4.63		
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.41	J	
335-67-1	Perfluorooctanoic acid (PFOA)	1	9.30		
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	12.4		
375-95-1	Perfluorononanoic acid (PFNA)	1	1.38	J	
335-76-2	Perfluorodecanoic acid (PFDA)	1	2.06	U	UJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	2.06	U	UJ
307-55-1	Perfluorododecanoic acid (PFDoA)	1	2.06	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	2.06	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	2.06	U	
2355-31-9	N-MeFOSAA	1	2.06	U	
2991-50-6	N-EtFOSAA	1	2.06	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	4.12	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	2.06	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.97	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.99	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.82	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.91	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	683		J
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.66	U	UJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	4.12	U	UJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	4.12	U	UJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	0.564	J	J
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.94	U	UJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.72	U	
13252-13-6	HFPO-DA (Gen-X)	1	8.24	U	
763051-92-9	11CL-PF3OUdS	1	7.78	U	
756426-58-1	9CL-PF3ONS	1	7.70	U	
919005-14-4	ADONA	1	7.78	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	2.00	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.98	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	5.15	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	25.7	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	25.7	U	
24448-09-7	N-MeFOSE	1	20.6	U	
31506-32-8	N-MeFOSA	1	2.06	U	
1691-99-2	N-EtFOSE	1	20.6	U	
4151-50-2	N-EtFOSA	1	2.06	U	

MKP 2/20/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24A0923

Client: Touchstone Environmental Geology, PC Project: 100 East 149th Street

Matrix: Ground Water Laboratory ID: 24A0923-10 File ID: QQQ34596.d

Sampled: 01/12/24 12:50 Prepared: 01/19/24 14:51 Analyzed: 01/19/24 23:33

Solids: Preparation: EPA 1633 Prep Initial/Final: 485.71 mL / 5 mL

Batch: BA41229 Sequence: S4A1939 Calibration: SL30021 Instrument: LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	20.0	9.73	48.7	25 - 150	
M5PFHxA	21.5	11.3	52.6	25 - 150	
M4PFHpA	21.5	14.6	68.0	25 - 150	
M3PFHxS	20.3	21.1	104	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.5	21.5	100	25 - 150	
M6PFDA	10.7	12.8	119	25 - 150	
M7PFUdA	10.7	11.7	110	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.7	10.3	96.1	25 - 150	
M2PFTeDA	10.7	7.03	65.7	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	86.0	1.48	1.72	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.5	26.5	129	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.9	1.45	3.38	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.5	21.8	101	10 - 150	
d3-N-MeFOSAA	42.9	37.7	87.9	25 - 150	
d5-N-EtFOSAA	42.9	36.5	85.0	25 - 150	
M2-6:2 FTS	40.8	56.8	139	25 - 200	
M2-8:2 FTS	41.2	48.8	118	25 - 200	
M9PFNA	10.7	12.6	117	25 - 150	
M2-4:2 FTS	40.3	36.0	89.3	25 - 150	
d-N-MeFOSA	21.5	15.6	72.8	25 - 150	
d-N-EtFOSA	21.5	13.2	61.6	25 - 150	
M3HFPO-DA	86.0	38.0	44.2	25 - 150	
d9-N-EtFOSE	215	86.4	40.3	25 - 150	
d7-N-MeFOSE	215	128	59.4	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	19439.91	1.225467	27183.86	1.188733	
MPFDA	9012.59	8.51345	12357.69	8.587584	
MPFHxA	29855.86	6.094283	39971.55	6.066566	
MPFHxS	3312.913	6.88005	3968.243	6.917067	
MPFNA	14066.63	7.97585	17756.19	8.050283	
MPFOA	30786.37	7.400033	38671.69	7.455667	
MPFOS	7153.723	8.01175	9540.163	8.0767	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3683.172	7.975483	3503.137	8.049916	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	21517.84	7.399667	25947.29	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	2233.94	4.468283	76769.46	4.384717	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	1381.031	1.23235	107703.8	1.18645	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	14034.56	9.4386	15715.08	9.5777	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

23MW-10

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-10	File ID:	QQQ34596.d
Sampled:	01/12/24 12:50	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:33
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	485.71 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	3161.174	8.011217	2827.736	8.08545	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8773.24	8.989767	8711.602	9.11055	
M7PFUdA-EIS	17324.13	8.99485	18871.01	9.10615	
M6PFDA-EIS	12355.94	8.51305	12492.45	8.5872	
M5PFHxA-EIS	20310.78	6.093083	46852.2	6.065383	
M4PFHpA-EIS	3689.758	6.7982	6022.506	6.816683	
M3PFHxS-EIS	8078.619	6.880533	8166.79	6.917533	
M3PFBS-EIS	5961.41	5.325583	13024.54	5.261017	
M3-HFPO-DA-EIS	11734.86	6.346334	33594.66	6.337067	
M2PFTeDA-EIS	6256.094	10.19342	9806.385	10.35918	
M2-8-2FTS-EIS	23373.13	8.47475	24184.56	8.549334	
M2-6-2FTS-EIS	20877.28	7.342983	17836.96	7.3989	
M2-4-2FTS-EIS	18710.88	6.027233	28059.14	5.999516	
d9-NEtFOSE-EIS	1350.122	10.14992	2795.468	10.33463	
d7-NMeFOSE-EIS	3894.515	9.864583	5738.218	10.03095	
d5-NEtFOSA-EIS	578.6545	10.19907	797.3231	10.38325	
d5-N-EtFOSAA-EIS	12270.97	8.975233	15978.39	9.077383	
d3-NMeFOSA-EIS	1100.423	9.895933	1360.193	10.0722	
d3-N-MeFOSAA-EIS	16439.98	8.714367	18786.19	8.807484	

* Values outside of QC limits

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

FB

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-11	File ID:	QQQ34597.d
Sampled:	01/12/24 09:15	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:49
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	516.78 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q	
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1	1.71	U	UJ
307-24-4	Perfluorohexanoic acid (PFHxA)	1	1.94	U	
375-85-9	Perfluoroheptanoic acid (PFHpA)	1	1.94	U	
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1	1.77	U	
335-67-1	Perfluorooctanoic acid (PFOA)	1	1.94	U	
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1	1.80	U	
375-95-1	Perfluorononanoic acid (PFNA)	1	1.94	U	
335-76-2	Perfluorodecanoic acid (PFDA)	1	1.94	U	
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1	1.94	U	
307-55-1	Perfluorododecanoic acid (PFDoA)	1	1.94	U	
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	1	1.94	U	UJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	1	1.94	U	
2355-31-9	N-MeFOSAA	1	1.94	U	
2991-50-6	N-EtFOSAA	1	1.94	U	
2706-90-3	Perfluoropentanoic acid (PFPeA)	1	3.87	U	
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	1	1.94	U	
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	1	1.85	U	
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	1	1.87	U	
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	1	7.35	U	
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	1	7.43	U	
375-22-4	Perfluoro-n-butanoic acid (PFBA)	1	7.74	U	
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1	3.44	U	
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1	3.87	U	
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	1	3.87	U	
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	1	3.87	U	
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	1	1.82	U	
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	1	7.26	U	
13252-13-6	HFPO-DA (Gen-X)	1	7.74	U	
763051-92-9	11CL-PF3OUdS	1	7.31	U	
756426-58-1	9CL-PF3ONS	1	7.24	U	
919005-14-4	ADONA	1	7.31	U	
79780-39-5	Perfluorododecanesulfonic acid (PFDoS)	1	1.88	U	
68259-12-1	Perfluoro-1-nonanesulfonic acid (PFNS)	1	1.86	U	
356-02-5	3-Perfluoropropyl propanoic acid (FPrPA)	1	4.84	U	
914637-49-3	3-Perfluoropentyl propanoic acid (FPePA)	1	24.2	U	
812-70-4	3-Perfluoroheptyl propanoic acid (FHpPA)	1	24.2	U	
24448-09-7	N-MeFOSE	1	19.4	U	
31506-32-8	N-MeFOSA	1	1.94	U	
1691-99-2	N-EtFOSE	1	19.4	U	
4151-50-2	N-EtFOSA	1	1.94	U	

MKP 2/20/2024

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

FB

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-11	File ID:	QQQ34597.d
Sampled:	01/12/24 09:15	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:49
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	516.78 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021	Instrument:	LCQQQ

CAS NO.	COMPOUND	DILUTION	CONC. (ng/L)	Q
1180-95-6	Taurodeoxycholic Acid (TDCA)	1		U
6009-98-9	Taurochenodeoxycholic Acid (TCDCA)	1		U
14605-22-2	Tauroursodeoxycholic Acid (TUDCA)	1		U

SYSTEM MONITORING COMPOUND	ADDED (ng/L)	CONC (ng/L)	% REC	QC LIMITS	Q
M3PFBS	18.8	12.4	65.9	25 - 150	
M5PFHxA	20.2	12.5	62.2	25 - 150	
M4PFHpA	20.2	19.0	94.1	25 - 150	
M3PFHxS	19.1	20.8	109	25 - 150	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.2	19.7	97.8	25 - 150	
M6PFDA	10.1	11.1	110	25 - 150	
M7PFUdA	10.1	11.0	110	25 - 150	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.1	10.9	109	25 - 150	
M2PFTeDA	10.1	6.55	65.1	10 - 150	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	80.8	0.630	0.780	25 - 150	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.3	23.6	122	25 - 150	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	40.3	1.03	2.55	25 - 150	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.2	20.6	102	10 - 150	
d3-N-MeFOSAA	40.3	35.8	88.8	25 - 150	
d5-N-EtFOSAA	40.3	37.8	93.8	25 - 150	
M2-6:2 FTS	38.3	42.3	110	25 - 200	
M2-8:2 FTS	38.7	44.7	116	25 - 200	
M9PFNA	10.1	10.9	109	25 - 150	
M2-4:2 FTS	37.8	33.9	89.7	25 - 150	
d-N-MeFOSA	20.2	17.2	85.2	25 - 150	
d-N-EtFOSA	20.2	16.7	82.8	25 - 150	
M3HFPO-DA	80.8	48.2	59.6	25 - 150	
d9-N-EtFOSE	202	79.5	39.4	25 - 150	
d7-N-MeFOSE	202	118	58.6	25 - 150	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
M3PFBA	20822.18	1.216283	27183.86	1.188733	
MPFDA	9889.579	8.643184	12357.69	8.587584	
MPFHxA	31131.82	6.0758	39971.55	6.066566	
MPFHxS	3038.201	6.935583	3968.243	6.917067	
MPFNA	13736.85	8.096666	17756.19	8.050283	
MPFOA	31651.44	7.49275	38671.69	7.455667	
MPFOS	7104.084	8.1231	9540.163	8.0767	
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS	3322.703	8.096316	3503.137	8.049916	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS	21345.08	7.492383	25947.29	7.4553	
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS	1833.635	4.4031	76769.46	4.384717	
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS	678.8426	1.213983	107703.8	1.18645	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS	17412.34	9.605433	15715.08	9.5777	

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 1633 Draft 3

FB

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	24A0923
Client:	Touchstone Environmental Geology, PC			Project:	100 East 149th Street
Matrix:	Ground Water	Laboratory ID:	24A0923-11	File ID:	QQQ34597.d
Sampled:	01/12/24 09:15	Prepared:	01/19/24 14:51	Analyzed:	01/19/24 23:49
Solids:		Preparation:	EPA 1633 Prep	Initial/Final:	516.78 mL / 5 mL
Batch:	BA41229	Sequence:	S4A1939	Calibration:	SL30021
Instrument:	LCQQQ				

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS	2968.967	8.122566	2827.736	8.08545	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS	8764.955	9.14765	8711.602	9.11055	
M7PFUdA-EIS	19000.41	9.152534	18871.01	9.10615	
M6PFDA-EIS	12534.58	8.6428	12492.45	8.5872	
M5PFHxA-EIS	25105.51	6.074616	46852.2	6.065383	
M4PFHpA-EIS	5345.547	6.844917	6022.506	6.816683	
M3PFHxS-EIS	7762.446	6.93605	8166.79	6.917533	
M3PFBS-EIS	7390.425	5.261	13024.54	5.261017	
M3-HFPO-DA-EIS	16505.92	6.346334	33594.66	6.337067	
M2PFTeDA-EIS	6791.94	10.3684	9806.385	10.35918	
M2-8-2FTS-EIS	20915.46	8.604934	24184.56	8.549334	
M2-6-2FTS-EIS	15157.8	7.435983	17836.96	7.3989	
M2-4-2FTS-EIS	17223.58	6.008767	28059.14	5.999516	
d9-NEtFOSE-EIS	1311.812	10.33463	2795.468	10.33463	
d7-NMeFOSE-EIS	3797.736	10.04017	5738.218	10.03095	
d5-NEtFOSA-EIS	773.002	10.37405	797.3231	10.38325	
d5-N-EtFOSAA-EIS	13436.25	9.123734	15978.39	9.077383	
d3-NMeFOSA-EIS	1279.618	10.0722	1360.193	10.0722	
d3-N-MeFOSAA-EIS	16477.87	8.863983	18786.19	8.807484	

* Values outside of QC limits

Appendix B

Laboratory QC Documentation

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-1 (24A0923-01)			Lab File ID: QQQ34584.d		Analyzed: 01/19/24 20:19			
M3PFBS	19.1	124	25 - 150	5.270233	5.079563	0.1907	+/-1.00	
M5PFHxA	20.6	144	25 - 150	6.065383	5.925664	0.1397	+/-1.00	
M4PFHpA	20.6	115	25 - 150	6.816683	6.759575	0.0571	+/-1.00	
M3PFHxS	19.5	130	25 - 150	6.908283	6.868957	0.0393	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.6	123	25 - 150	7.4553	7.464567	-0.0093	+/-1.00	
M6PFDA	10.3	128	25 - 150	8.596467	8.638166	-0.0417	+/-1.00	
M7PFUdA	10.3	123	25 - 150	9.096867	9.099208	-0.0023	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.3	101	25 - 150	9.5592	9.496517	0.0627	+/-1.00	
M2PFTeDA	10.3	51.1	10 - 150	10.32235	10.14498	0.1774	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	82.3	4.21	25 - 150	1.27825	1.104981	0.1733	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.7	145	25 - 150	8.08545	8.127206	-0.0418	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	41.1	58.0	25 - 150	4.4591	4.250291	0.2088	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.6	123	10 - 150	9.09185	9.097704	-0.0059	+/-1.00	
d3-N-MeFOSAA	41.1	107	25 - 150	8.816767	8.842796	-0.0260	+/-1.00	
d5-N-EtFOSAA	41.1	109	25 - 150	9.068117	9.073909	-0.0058	+/-1.00	
M2-6:2 FTS	39.0	233	25 - 200	7.3989	7.400062	-0.0012	+/-1.00	*
M2-8:2 FTS	39.4	173	25 - 200	8.5586	8.596825	-0.0382	+/-1.00	
M9PFNA	10.3	136	25 - 150	8.049916		8.0499	+/-1.00	*
M2-4:2 FTS	38.6	291	25 - 150	5.999516	5.852006	0.1475	+/-1.00	*
d-N-MeFOSA	20.6	65.2	25 - 150	10.0261	9.893631	0.1325	+/-1.00	
d-N-EtFOSA	20.6	68.4	25 - 150	10.3372	10.15332	0.1839	+/-1.00	
M3HFPO-DA	82.3	132	25 - 150	6.337067	6.224679	0.1124	+/-1.00	
d9-N-EtFOSE	206	47.6	25 - 150	10.2886	10.1131	0.1755	+/-1.00	
d7-N-MeFOSE	206	64.7	25 - 150	9.994066	9.861119	0.1329	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-2 (24A0923-02)			Lab File ID: QQQ34585.d		Analyzed: 01/19/24 20:35			
M3PFBS	19.3	123	25 - 150	5.24255	5.079563	0.1630	+/-1.00	
M5PFHxA	20.8	140	25 - 150	6.056133	5.925664	0.1305	+/-1.00	
M4PFHpA	20.8	104	25 - 150	6.825933	6.759575	0.0664	+/-1.00	
M3PFHxS	19.7	127	25 - 150	6.917533	6.868957	0.0486	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.8	141	25 - 150	7.464567	7.464567	0.0000	+/-1.00	
M6PFDA	10.4	118	25 - 150	8.605733	8.638166	-0.0324	+/-1.00	
M7PFUdA	10.4	102	25 - 150	9.115417	9.099208	0.0162	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.4	107	25 - 150	9.5777	9.496517	0.0812	+/-1.00	
M2PFTeDA	10.4	64.2	10 - 150	10.34077	10.14498	0.1958	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.1	2.94	25 - 150	1.223167	1.104981	0.1182	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.9	137	25 - 150	8.094733	8.127206	-0.0325	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	41.5	21.3	25 - 150	4.393917	4.250291	0.1436	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.8	123	10 - 150	9.11055	9.097704	0.0128	+/-1.00	
d3-N-MeFOSAA	41.5	116	25 - 150	8.82605	8.842796	-0.0167	+/-1.00	
d5-N-EtFOSAA	41.5	126	25 - 150	9.08665	9.073909	0.0127	+/-1.00	
M2-6:2 FTS	39.4	189	25 - 200	7.408183	7.400062	0.0081	+/-1.00	
M2-8:2 FTS	39.8	152	25 - 200	8.567866	8.596825	-0.0290	+/-1.00	
M9PFNA	10.4	134	25 - 150	8.0592		8.0592	+/-1.00	*
M2-4:2 FTS	38.9	234	25 - 150	5.990283	5.852006	0.1383	+/-1.00	*
d-N-MeFOSA	20.8	77.1	25 - 150	10.04453	9.893631	0.1509	+/-1.00	
d-N-EtFOSA	20.8	72.1	25 - 150	10.35563	10.15332	0.2023	+/-1.00	
M3HFPO-DA	83.1	136	25 - 150	6.337067	6.224679	0.1124	+/-1.00	
d9-N-EtFOSE	208	53.3	25 - 150	10.31622	10.1131	0.2031	+/-1.00	
d7-N-MeFOSE	208	73.4	25 - 150	10.01252	9.861119	0.1514	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-3 (24A0923-03)			Lab File ID: QQQ34586.d		Analyzed: 01/19/24 20:52			
M3PFBS	19.5	115	25 - 150	5.251783	5.079563	0.1722	+/-1.00	
M5PFHxA	20.9	137	25 - 150	6.065383	5.925664	0.1397	+/-1.00	
M4PFHpA	20.9	113	25 - 150	6.825933	6.759575	0.0664	+/-1.00	
M3PFHxS	19.8	123	25 - 150	6.9268	6.868957	0.0578	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.9	134	25 - 150	7.473834	7.464567	0.0093	+/-1.00	
M6PFDA	10.4	144	25 - 150	8.624267	8.638166	-0.0139	+/-1.00	
M7PFUdA	10.4	131	25 - 150	9.152534	9.099208	0.0533	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.4	113	25 - 150	9.633183	9.496517	0.1367	+/-1.00	
M2PFTeDA	10.4	79.2	10 - 150	10.41445	10.14498	0.2695	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	83.8	5.68	25 - 150	1.23235	1.104981	0.1274	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.0	128	25 - 150	8.104	8.127206	-0.0232	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	41.8	140	25 - 150	4.393917	4.250291	0.1436	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.9	113	10 - 150	9.14765	9.097704	0.0499	+/-1.00	
d3-N-MeFOSAA	41.8	107	25 - 150	8.8547	8.842796	0.0119	+/-1.00	
d5-N-EtFOSAA	41.8	115	25 - 150	9.123734	9.073909	0.0498	+/-1.00	
M2-6:2 FTS	39.8	228	25 - 200	7.41745	7.400062	0.0174	+/-1.00	*
M2-8:2 FTS	40.2	148	25 - 200	8.5864	8.596825	-0.0104	+/-1.00	
M9PFNA	10.4	124	25 - 150	8.068483		8.0685	+/-1.00	*
M2-4:2 FTS	39.3	296	25 - 150	5.999516	5.852006	0.1475	+/-1.00	*
d-N-MeFOSA	20.9	89.5	25 - 150	10.10907	9.893631	0.2154	+/-1.00	
d-N-EtFOSA	20.9	67.5	25 - 150	10.4293	10.15332	0.2760	+/-1.00	
M3HFPO-DA	83.8	137	25 - 150	6.337067	6.224679	0.1124	+/-1.00	
d9-N-EtFOSE	209	52.4	25 - 150	10.38068	10.1131	0.2676	+/-1.00	
d7-N-MeFOSE	209	70.4	25 - 150	10.07705	9.861119	0.2159	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-5 (24A0923-05)			Lab File ID: QQQ34588.d		Analyzed: 01/19/24 21:24			
M3PFBS	18.0	62.4	25 - 150	5.270233	5.079563	0.1907	+/-1.00	
M5PFHxA	19.3	68.4	25 - 150	6.074616	5.925664	0.1490	+/-1.00	
M4PFHpA	19.3	46.2	25 - 150	6.835166	6.759575	0.0756	+/-1.00	
M3PFHxS	18.3	65.5	25 - 150	6.9268	6.868957	0.0578	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	19.3	64.3	25 - 150	7.473834	7.464567	0.0093	+/-1.00	
M6PFDA	9.64	59.9	25 - 150	8.615	8.638166	-0.0232	+/-1.00	
M7PFUdA	9.64	47.0	25 - 150	9.1247	9.099208	0.0255	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	9.64	38.3	25 - 150	9.58695	9.496517	0.0904	+/-1.00	
M2PFTeDA	9.64	13.0	10 - 150	10.34998	10.14498	0.2050	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	77.4	9.09	25 - 150	1.223167	1.104981	0.1182	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	18.5	74.5	25 - 150	8.104	8.127206	-0.0232	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	38.6	69.2	25 - 150	4.4123	4.250291	0.1620	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	19.3	54.0	10 - 150	9.119817	9.097704	0.0221	+/-1.00	
d3-N-MeFOSAA	38.6	56.9	25 - 150	8.845417	8.842796	0.0026	+/-1.00	
d5-N-EtFOSAA	38.6	51.9	25 - 150	9.105166	9.073909	0.0313	+/-1.00	
M2-6:2 FTS	36.7	134	25 - 200	7.41745	7.400062	0.0174	+/-1.00	
M2-8:2 FTS	37.1	81.1	25 - 200	8.577133	8.596825	-0.0197	+/-1.00	
M9PFNA	9.64	67.6	25 - 150	8.068483		8.0685	+/-1.00	*
M2-4:2 FTS	36.2	160	25 - 150	6.008767	5.852006	0.1568	+/-1.00	*
d-N-MeFOSA	19.3	23.3	25 - 150	10.05377	9.893631	0.1601	+/-1.00	*
d-N-EtFOSA	19.3	20.7	25 - 150	10.37405	10.15332	0.2207	+/-1.00	*
M3HFPO-DA	77.4	60.5	25 - 150	6.346334	6.224679	0.1217	+/-1.00	
d9-N-EtFOSE	193	13.5	25 - 150	10.32543	10.1131	0.2123	+/-1.00	*
d7-N-MeFOSE	193	23.6	25 - 150	10.03095	9.861119	0.1698	+/-1.00	*

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-6 (24A0923-06)			Lab File ID: QQQ34589.d		Analyzed: 01/19/24 21:40			
M3PFBS	19.9	113	25 - 150	5.233333	5.079563	0.1538	+/-1.00	
M5PFHxA	21.4	140	25 - 150	6.056133	5.925664	0.1305	+/-1.00	
M4PFHpA	21.4	104	25 - 150	6.825933	6.759575	0.0664	+/-1.00	
M3PFHxS	20.2	121	25 - 150	6.917533	6.868957	0.0486	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.4	139	25 - 150	7.464567	7.464567	0.0000	+/-1.00	
M6PFDA	10.7	122	25 - 150	8.615	8.638166	-0.0232	+/-1.00	
M7PFUdA	10.7	105	25 - 150	9.1247	9.099208	0.0255	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.7	88.2	25 - 150	9.58695	9.496517	0.0904	+/-1.00	
M2PFTeDA	10.7	55.5	10 - 150	10.35918	10.14498	0.2142	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	85.6	5.67	25 - 150	1.213983	1.104981	0.1090	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.5	144	25 - 150	8.094733	8.127206	-0.0325	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.7	108	25 - 150	4.366333	4.250291	0.1160	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.4	123	10 - 150	9.119817	9.097704	0.0221	+/-1.00	
d3-N-MeFOSAA	42.7	110	25 - 150	8.835333	8.842796	-0.0075	+/-1.00	
d5-N-EtFOSAA	42.7	114	25 - 150	9.105166	9.073909	0.0313	+/-1.00	
M2-6:2 FTS	40.6	288	25 - 200	7.408183	7.400062	0.0081	+/-1.00	*
M2-8:2 FTS	41.0	188	25 - 200	8.577133	8.596825	-0.0197	+/-1.00	
M9PFNA	10.7	130	25 - 150	8.068483		8.0685	+/-1.00	*
M2-4:2 FTS	40.1	297	25 - 150	5.990283	5.852006	0.1383	+/-1.00	*
d-N-MeFOSA	21.4	77.5	25 - 150	10.06298	9.893631	0.1693	+/-1.00	
d-N-EtFOSA	21.4	73.0	25 - 150	10.37405	10.15332	0.2207	+/-1.00	
M3HFPO-DA	85.6	139	25 - 150	6.327816	6.224679	0.1031	+/-1.00	
d9-N-EtFOSE	214	48.6	25 - 150	10.33463	10.1131	0.2215	+/-1.00	
d7-N-MeFOSE	214	70.9	25 - 150	10.03095	9.861119	0.1698	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-7 (24A0923-07)			Lab File ID: QQQ34593.d		Analyzed: 01/19/24 22:45			
M3PFBS	18.5	129	25 - 150	5.297917	5.079563	0.2184	+/-1.00	
M5PFHxA	19.9	136	25 - 150	6.102334	5.925664	0.1767	+/-1.00	
M4PFHpA	19.9	98.9	25 - 150	6.825933	6.759575	0.0664	+/-1.00	
M3PFHxS	18.9	124	25 - 150	6.917533	6.868957	0.0486	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	19.9	138	25 - 150	7.43675	7.464567	-0.0278	+/-1.00	
M6PFDA	9.93	137	25 - 150	8.466333	8.638166	-0.1718	+/-1.00	
M7PFUdA	9.93	113	25 - 150	8.9013	9.099208	-0.1979	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	9.93	115	25 - 150	9.308666	9.496517	-0.1879	+/-1.00	
M2PFTeDA	9.93	58.0	10 - 150	10.02742	10.14498	-0.1176	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	79.8	4.43	25 - 150	1.2048	1.104981	0.0998	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.1	149	25 - 150	8.011217	8.127206	-0.1160	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	39.8	164	25 - 150	4.4031	4.250291	0.1528	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	19.9	134	10 - 150	8.905184	9.097704	-0.1925	+/-1.00	
d3-N-MeFOSAA	39.8	122	25 - 150	8.658767	8.842796	-0.1840	+/-1.00	
d5-N-EtFOSAA	39.8	135	25 - 150	8.881817	9.073909	-0.1921	+/-1.00	
M2-6:2 FTS	37.8	348	25 - 200	7.389633	7.400062	-0.0104	+/-1.00	*
M2-8:2 FTS	38.2	267	25 - 200	8.437683	8.596825	-0.1591	+/-1.00	*
M9PFNA	9.93	116	25 - 150	7.984766		7.9848	+/-1.00	*
M2-4:2 FTS	37.3	327	25 - 150	6.036467	5.852006	0.1845	+/-1.00	*
d-N-MeFOSA	19.9	79.7	25 - 150	9.748734	9.893631	-0.1449	+/-1.00	
d-N-EtFOSA	19.9	78.0	25 - 150	10.05203	10.15332	-0.1013	+/-1.00	
M3HFPO-DA	79.8	148	25 - 150	6.36485	6.224679	0.1402	+/-1.00	
d9-N-EtFOSE	199	51.2	25 - 150	10.0024	10.1131	-0.1107	+/-1.00	
d7-N-MeFOSE	199	65.2	25 - 150	9.724883	9.861119	-0.1362	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-8 (24A0923-08)			Lab File ID: QQQ34594.d		Analyzed: 01/19/24 23:01			
M3PFBS	18.7	104	25 - 150	5.353267	5.079563	0.2737	+/-1.00	
M5PFHxA	20.0	121	25 - 150	6.139266	5.925664	0.2136	+/-1.00	
M4PFHpA	20.0	103	25 - 150	6.825933	6.759575	0.0664	+/-1.00	
M3PFHxS	19.0	121	25 - 150	6.908283	6.868957	0.0393	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.0	124	25 - 150	7.399667	7.464567	-0.0649	+/-1.00	
M6PFDA	10.0	115	25 - 150	8.466333	8.638166	-0.1718	+/-1.00	
M7PFUdA	10.0	96.8	25 - 150	8.947717	9.099208	-0.1515	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.0	85.8	25 - 150	9.373834	9.496517	-0.1227	+/-1.00	
M2PFTeDA	10.0	47.2	10 - 150	10.11962	10.14498	-0.0254	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	80.3	2.14	25 - 150	1.2966	1.104981	0.1916	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.2	132	25 - 150	7.973866	8.127206	-0.1533	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	40.0	16.0	25 - 150	4.55105	4.250291	0.3008	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.0	116	10 - 150	8.933033	9.097704	-0.1647	+/-1.00	
d3-N-MeFOSAA	40.0	94.1	25 - 150	8.6773	8.842796	-0.1655	+/-1.00	
d5-N-EtFOSAA	40.0	94.1	25 - 150	8.918933	9.073909	-0.1550	+/-1.00	
M2-6:2 FTS	38.1	281	25 - 200	7.35225	7.400062	-0.0478	+/-1.00	*
M2-8:2 FTS	38.5	165	25 - 200	8.428416	8.596825	-0.1684	+/-1.00	
M9PFNA	10.0	103	25 - 150	7.956933		7.9569	+/-1.00	*
M2-4:2 FTS	37.6	271	25 - 150	6.073417	5.852006	0.2214	+/-1.00	*
d-N-MeFOSA	20.0	69.9	25 - 150	9.822117	9.893631	-0.0715	+/-1.00	
d-N-EtFOSA	20.0	58.8	25 - 150	10.12578	10.15332	-0.0275	+/-1.00	
M3HFPO-DA	80.3	113	25 - 150	6.392633	6.224679	0.1680	+/-1.00	
d9-N-EtFOSE	200	41.9	25 - 150	10.08538	10.1131	-0.0277	+/-1.00	
d7-N-MeFOSE	200	54.8	25 - 150	9.79075	9.861119	-0.0704	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-9 (24A0923-09)			Lab File ID: QQQ34595.d		Analyzed: 01/19/24 23:17			
M3PFBS	19.6	13.6	25 - 150	5.3625	5.079563	0.2829	+/-1.00	*
M5PFHxA	21.1	14.8	25 - 150	6.130033	5.925664	0.2044	+/-1.00	*
M4PFHpA	21.1	32.6	25 - 150	6.816683	6.759575	0.0571	+/-1.00	
M3PFHxS	20.0	61.8	25 - 150	6.899034	6.868957	0.0301	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.1	54.6	25 - 150	7.399667	7.464567	-0.0649	+/-1.00	
M6PFDA	10.5	89.6	25 - 150	8.48485	8.638166	-0.1533	+/-1.00	
M7PFUdA	10.5	92.4	25 - 150	8.9578	9.099208	-0.1414	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.5	98.5	25 - 150	9.392333	9.496517	-0.1042	+/-1.00	
M2PFTeDA	10.5	63.0	10 - 150	10.15658	10.14498	0.0116	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	84.6	1.23	25 - 150	1.23235	1.104981	0.1274	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.2	107	25 - 150	7.99265	8.127206	-0.1346	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.2	1.92	25 - 150	4.505084	4.250291	0.2548	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.1	90.9	10 - 150	8.9516	9.097704	-0.1461	+/-1.00	
d3-N-MeFOSAA	42.2	87.3	25 - 150	8.695833	8.842796	-0.1470	+/-1.00	
d5-N-EtFOSAA	42.2	97.5	25 - 150	8.9375	9.073909	-0.1364	+/-1.00	
M2-6:2 FTS	40.1	87.6	25 - 200	7.35225	7.400062	-0.0478	+/-1.00	
M2-8:2 FTS	40.5	103	25 - 200	8.44695	8.596825	-0.1499	+/-1.00	
M9PFNA	10.5	61.1	25 - 150	7.956933		7.9569	+/-1.00	*
M2-4:2 FTS	39.6	27.2	25 - 150	6.064183	5.852006	0.2122	+/-1.00	
d-N-MeFOSA	21.1	72.1	25 - 150	9.8498	9.893631	-0.0438	+/-1.00	
d-N-EtFOSA	21.1	64.0	25 - 150	10.15343	10.15332	0.0001	+/-1.00	
M3HFPO-DA	84.6	11.5	25 - 150	6.3741	6.224679	0.1494	+/-1.00	*
d9-N-EtFOSE	211	44.7	25 - 150	10.11303	10.1131	-0.0001	+/-1.00	
d7-N-MeFOSE	211	62.2	25 - 150	9.818434	9.861119	-0.0427	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-10 (24A0923-10)			Lab File ID: QQQ34596.d		Analyzed: 01/19/24 23:33			
M3PFBS	20.0	48.7	25 - 150	5.325583	5.079563	0.2460	+/-1.00	
M5PFHxA	21.5	52.6	25 - 150	6.093083	5.925664	0.1674	+/-1.00	
M4PFHpA	21.5	68.0	25 - 150	6.7982	6.759575	0.0386	+/-1.00	
M3PFHxS	20.3	104	25 - 150	6.880533	6.868957	0.0116	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.5	100	25 - 150	7.399667	7.464567	-0.0649	+/-1.00	
M6PFDA	10.7	119	25 - 150	8.51305	8.638166	-0.1251	+/-1.00	
M7PFUdA	10.7	110	25 - 150	8.99485	9.099208	-0.1044	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.7	96.1	25 - 150	9.4386	9.496517	-0.0579	+/-1.00	
M2PFTeDA	10.7	65.7	10 - 150	10.19342	10.14498	0.0484	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	86.0	1.72	25 - 150	1.23235	1.104981	0.1274	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.5	129	25 - 150	8.011217	8.127206	-0.1160	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.9	3.38	25 - 150	4.468283	4.250291	0.2180	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.5	101	10 - 150	8.989767	9.097704	-0.1079	+/-1.00	
d3-N-MeFOSAA	42.9	87.9	25 - 150	8.714367	8.842796	-0.1284	+/-1.00	
d5-N-EtFOSAA	42.9	85.0	25 - 150	8.975233	9.073909	-0.0987	+/-1.00	
M2-6:2 FTS	40.8	139	25 - 200	7.342983	7.400062	-0.0571	+/-1.00	
M2-8:2 FTS	41.2	118	25 - 200	8.47475	8.596825	-0.1221	+/-1.00	
M9PFNA	10.7	117	25 - 150	7.975483		7.9755	+/-1.00	*
M2-4:2 FTS	40.3	89.3	25 - 150	6.027233	5.852006	0.1752	+/-1.00	
d-N-MeFOSA	21.5	72.8	25 - 150	9.895933	9.893631	0.0023	+/-1.00	
d-N-EtFOSA	21.5	61.6	25 - 150	10.19907	10.15332	0.0458	+/-1.00	
M3HFPO-DA	86.0	44.2	25 - 150	6.346334	6.224679	0.1217	+/-1.00	
d9-N-EtFOSE	215	40.3	25 - 150	10.14992	10.1131	0.0368	+/-1.00	
d7-N-MeFOSE	215	59.4	25 - 150	9.864583	9.861119	0.0035	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
FB (24A0923-11)			Lab File ID: QQQ34597.d		Analyzed: 01/19/24 23:49			
M3PFBS	18.8	65.9	25 - 150	5.261	5.079563	0.1814	+/-1.00	
M5PFHxA	20.2	62.2	25 - 150	6.074616	5.925664	0.1490	+/-1.00	
M4PFHpA	20.2	94.1	25 - 150	6.844917	6.759575	0.0853	+/-1.00	
M3PFHxS	19.1	109	25 - 150	6.93605	6.868957	0.0671	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	20.2	97.8	25 - 150	7.492383	7.464567	0.0278	+/-1.00	
M6PFDA	10.1	110	25 - 150	8.6428	8.638166	0.0046	+/-1.00	
M7PFUdA	10.1	110	25 - 150	9.152534	9.099208	0.0533	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.1	109	25 - 150	9.605433	9.496517	0.1089	+/-1.00	
M2PFTeDA	10.1	65.1	10 - 150	10.3684	10.14498	0.2234	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	80.8	0.780	25 - 150	1.213983	1.104981	0.1090	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	19.3	122	25 - 150	8.122566	8.127206	-0.0046	+/-1.00	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	40.3	2.55	25 - 150	4.4031	4.250291	0.1528	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	20.2	102	10 - 150	9.14765	9.097704	0.0499	+/-1.00	
d3-N-MeFOSAA	40.3	88.8	25 - 150	8.863983	8.842796	0.0212	+/-1.00	
d5-N-EtFOSAA	40.3	93.8	25 - 150	9.123734	9.073909	0.0498	+/-1.00	
M2-6:2 FTS	38.3	110	25 - 200	7.435983	7.400062	0.0359	+/-1.00	
M2-8:2 FTS	38.7	116	25 - 200	8.604934	8.596825	0.0081	+/-1.00	
M9PFNA	10.1	109	25 - 150	8.096316		8.0963	+/-1.00	*
M2-4:2 FTS	37.8	89.7	25 - 150	6.008767	5.852006	0.1568	+/-1.00	
d-N-MeFOSA	20.2	85.2	25 - 150	10.0722	9.893631	0.1786	+/-1.00	
d-N-EtFOSA	20.2	82.8	25 - 150	10.37405	10.15332	0.2207	+/-1.00	
M3HFPO-DA	80.8	59.6	25 - 150	6.346334	6.224679	0.1217	+/-1.00	
d9-N-EtFOSE	202	39.4	25 - 150	10.33463	10.1131	0.2215	+/-1.00	
d7-N-MeFOSE	202	58.6	25 - 150	10.04017	9.861119	0.1791	+/-1.00	

FORM II **SURROGATE STANDARD RECOVERY AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A2232
Instrument: LCQQQ
Calibration: SL30021

Surrogate Compound	Spike Level ng/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23MW-4 (24A0923-04)			Lab File ID: QQQ34676.d		Analyzed: 01/23/24 08:39			
M3PFBS	19.7	118	25 - 150	5.233333	5.079563	0.1538	+/-1.00	
M5PFHxA	21.2	141	25 - 150	6.0469	5.925664	0.1212	+/-1.00	
M4PFHpA	21.2	116	25 - 150	6.825933	6.759575	0.0664	+/-1.00	
M3PFHxS	20.1	119	25 - 150	6.9268	6.868957	0.0578	+/-1.00	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	21.2	140	25 - 150	7.492383	7.464567	0.0278	+/-1.00	
M6PFDA	10.6	121	25 - 150	8.652066	8.638166	0.0139	+/-1.00	
M7PFUdA	10.6	88.5	25 - 150	9.133984	9.099208	0.0348	+/-1.00	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	10.6	76.3	25 - 150	9.54995	9.496517	0.0534	+/-1.00	
M2PFTeDA	10.6	36.5	10 - 150	10.23025	10.14498	0.0853	+/-1.00	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	84.9	2.65	25 - 150	1.18645	1.104981	0.0815	+/-1.00	*
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	20.3	154	25 - 150	8.141117	8.127206	0.0139	+/-1.00	*
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	42.4	61.4	25 - 150	4.384717	4.250291	0.1344	+/-1.00	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	21.2	131	10 - 150	9.138383	9.097704	0.0407	+/-1.00	
d3-N-MeFOSAA	42.4	108	25 - 150	8.863983	8.842796	0.0212	+/-1.00	
d5-N-EtFOSAA	42.4	105	25 - 150	9.105166	9.073909	0.0313	+/-1.00	
M2-6:2 FTS	40.3	281	25 - 200	7.435983	7.400062	0.0359	+/-1.00	*
M2-8:2 FTS	40.7	188	25 - 200	8.6142	8.596825	0.0174	+/-1.00	
M9PFNA	10.6	100	25 - 150	8.1056		8.1056	+/-1.00	*
M2-4:2 FTS	39.8	275	25 - 150	5.971817	5.852006	0.1198	+/-1.00	*
d-N-MeFOSA	21.2	71.8	25 - 150	9.96155	9.893631	0.0679	+/-1.00	
d-N-EtFOSA	21.2	89.0	25 - 150	10.2359	10.15332	0.0826	+/-1.00	
M3HFPO-DA	84.9	132	25 - 150	6.327816	6.224679	0.1031	+/-1.00	
d9-N-EtFOSE	212	44.9	25 - 150	10.1965	10.1131	0.0834	+/-1.00	
d7-N-MeFOSE	212	54.6	25 - 150	9.929183	9.861119	0.0681	+/-1.00	

DUPLICATES

23MW-6

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Matrix: Water
Laboratory ID: BA41229-DUP1
Batch: BA41229
Lab Source ID: 24A0923-06
Preparation: EPA 1633 Prep
Initial/Final: 522.93 mL / 5 mL
Source Sample Name: 23MW-6
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ng/L)	C	DUPLICATE CONCENTRATION (ng/L)	C	RPD %	Q	METHOD
N-EtFOSAA	30	ND		ND				EPA 1633 Draft 3
N-EtFOSE	30	ND		ND				EPA 1633 Draft 3
N-MeFOSA	30	ND		ND				EPA 1633 Draft 3
N-MeFOSAA	30	ND		ND				EPA 1633 Draft 3
N-MeFOSE	30	ND		ND				EPA 1633 Draft 3
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)		26.2		24.2				EPA 1633 Draft 3
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)-EIS		0.00		0.00				EPA 1633 Draft 3
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		29.5		28.3				EPA 1633 Draft 3
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)-EIS		0.00		0.00				EPA 1633 Draft 3
Perfluoro-1-decanesulfonic acid (PFDS)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-1-heptanesulfonic acid (PFHpS)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-1-nonanesulfonic acid (PFNS)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-1-octanesulfonamide (FOSA)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-1-pentanesulfonate (PFPeS)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-4-oxapentanoic acid (PFMPA)	30	ND		ND				EPA 1633 Draft 3
Perfluoro-5-oxahexanoic acid (PFMBA)	30	ND		ND				EPA 1633 Draft 3
Perfluorobutanesulfonic acid (PFBS)	30	4.48		0.508		159	*	EPA 1633 Draft 3
Perfluorodecanoic acid (PFDA)	30	ND		ND				EPA 1633 Draft 3

DUPLICATES

23MW-6

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Matrix: Water
Laboratory ID: BA41229-DUP1
Batch: BA41229
Lab Source ID: 24A0923-06
Preparation: EPA 1633 Prep
Initial/Final: 522.93 mL / 5 mL
Source Sample Name: 23MW-6
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ng/L)	C	DUPLICATE CONCENTRATION (ng/L)	C	RPD %	Q	METHOD
Perfluorododecanesulfonic acid (PFDoS)	30	ND		ND				EPA 1633 Draft 3
Perfluorododecanoic acid (PFDoA)	30	ND		ND				EPA 1633 Draft 3
Perfluoroheptanoic acid (PFHpA)	30	8.66		9.01		3.97		EPA 1633 Draft 3
Perfluorohexanesulfonic acid (PFHxS)	30	1.99		2.14		7.28		EPA 1633 Draft 3
Perfluorohexanoic acid (PFHxA)	30	13.2		11.9		10.0		EPA 1633 Draft 3
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)		9.40		9.10				EPA 1633 Draft 3
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)-EIS		0.00		0.00				EPA 1633 Draft 3
Perfluoro-n-[13C4]butanoic acid (MPFBA)		4.86		1.85				EPA 1633 Draft 3
Perfluoro-n-[13C4]butanoic acid (MPFBA)-EIS		0.00		0.00				EPA 1633 Draft 3
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)		46.0		6.03				EPA 1633 Draft 3
Perfluoro-n-[13C54]pentanoic acid (M5PFPeA)-EIS		0.00		0.00				EPA 1633 Draft 3
Perfluoro-n-[13C8]octanoic acid (M8PFOA)		29.8		27.9				EPA 1633 Draft 3
Perfluoro-n-[13C8]octanoic acid (M8PFOA)-EIS		0.00		0.00				EPA 1633 Draft 3
Perfluoro-n-[13C9]nonanoic acid (M9PFNA)-EIS		0.00		0.00				EPA 1633 Draft 3
Perfluoro-n-butanoic acid (PFBA)	30	460		598		26.2		EPA 1633 Draft 3
Perfluorononanoic acid (PFNA)	30	1.03		0.930		10.6		EPA 1633 Draft 3
Perfluorooctanesulfonic acid (PFOS)	30	1.04		1.80		54.2	*	EPA 1633 Draft 3
Perfluorooctanoic acid (PFOA)	30	11.9		11.0		8.40		EPA 1633 Draft 3
Perfluoropentanoic acid (PFPeA)	30	14.4		12.0		18.7		EPA 1633 Draft 3
Perfluorotetradecanoic acid (PFTA)	30	ND		ND				EPA 1633 Draft 3
Perfluorotridecanoic acid (PFTrDA)	30	ND		ND				EPA 1633 Draft 3

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Matrix:	Water		
Batch:	BA41229	Laboratory ID:	BA41229-BS1
Preparation:	EPA 1633 Prep	Initial/Final:	250.07 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	151	138	91.4	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	307	331	108	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	300	291	97.1	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	304	318	105	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	1600	1360	84.8	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	1600	1500	93.8	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	320	276	86.2	50 - 150
9CL-PF3ONS	150	179	120	50 - 150
ADONA	151	164	108	50 - 150
HFPO-DA (Gen-X)	160	148	92.3	50 - 150
N-EtFOSA	80.0	121	151 *	50 - 150
N-EtFOSAA	80.0	78.1	97.6	50 - 150
N-EtFOSE	800	981	123	50 - 150
N-MeFOSA	80.0	88.7	111	50 - 150
N-MeFOSAA	80.0	82.5	103	50 - 150
N-MeFOSE	800	800	100	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	142	161	113	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	77.2	75.5	97.8	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	76.4	90.1	118	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	76.8	103	135	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	80.0	74.9	93.6	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	75.2	73.3	97.6	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	160	181	113	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	160	123	76.7	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	160	166	104	50 - 150
Perfluorobutanesulfonic acid (PFBS)	70.8	74.3	105	50 - 150
Perfluorodecanoic acid (PFDA)	80.0	81.5	102	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	77.6	49.0	63.2	50 - 150
Perfluorododecanoic acid (PFDoA)	80.0	80.4	101	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Matrix:	Water		
Batch:	BA41229	Laboratory ID:	BA41229-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.01 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
11CL-PF3OUdS	30.2	24.5	81.0	50 - 150
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	61.4	68.7	112	50 - 150
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	60.0	65.3	109	50 - 150
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	60.8	58.9	96.9	50 - 150
3-Perfluoroheptyl propanoic acid (FHpPA)	320	265	82.8	50 - 150
3-Perfluoropentyl propanoic acid (FPePA)	320	282	88.3	50 - 150
3-Perfluoropropyl propanoic acid (FPrPA)	64.0	35.9	56.1	50 - 150
9CL-PF3ONS	29.9	35.8	120	50 - 150
ADONA	30.2	33.6	111	50 - 150
HFPO-DA (Gen-X)	32.0	33.8	106	50 - 150
N-EtFOSA	16.0	28.6	179 *	50 - 150
N-EtFOSAA	16.0	18.0	113	50 - 150
N-EtFOSE	160	213	133	50 - 150
N-MeFOSA	16.0	17.3	108	50 - 150
N-MeFOSAA	16.0	15.0	93.6	50 - 150
N-MeFOSE	160	186	116	50 - 150
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	28.5	30.9	109	50 - 150
Perfluoro-1-decanesulfonic acid (PFDS)	15.4	12.6	81.6	50 - 150
Perfluoro-1-heptanesulfonic acid (PFHpS)	15.3	17.4	114	50 - 150
Perfluoro-1-nonanesulfonic acid (PFNS)	15.4	19.8	129	50 - 150
Perfluoro-1-octanesulfonamide (FOSA)	16.0	17.9	112	50 - 150
Perfluoro-1-pentanesulfonate (PFPeS)	15.0	15.6	104	50 - 150
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	32.0	33.5	105	50 - 150
Perfluoro-4-oxapentanoic acid (PFMPA)	32.0	2.84	8.89 *	50 - 150
Perfluoro-5-oxahexanoic acid (PFMBA)	32.0	36.5	114	50 - 150
Perfluorobutanesulfonic acid (PFBS)	14.2	14.0	98.6	50 - 150
Perfluorodecanoic acid (PFDA)	16.0	16.1	101	50 - 150
Perfluorododecanesulfonic acid (PFDoS)	15.5	7.01	45.1 *	50 - 150
Perfluorododecanoic acid (PFDoA)	16.0	15.8	98.8	50 - 150

FORM III

LCS / LCS DUPLICATE RECOVERY

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Matrix:	Water		
Batch:	BA41229	Laboratory ID:	BA41229-BS2
Preparation:	EPA 1633 Prep	Initial/Final:	250.01 mL / 5 mL

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC. #	QC LIMITS REC.
Perfluoroheptanoic acid (PFHpA)	16.0	16.1	101	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	14.6	15.5	106	50 - 150
Perfluorohexanoic acid (PFHxA)	16.0	14.8	92.7	50 - 150
Perfluoro-n-butanoic acid (PFBA)	64.0	55.0	85.9	50 - 150
Perfluorononanoic acid (PFNA)	16.0	17.4	109	50 - 150
Perfluorooctanesulfonic acid (PFOS)	14.9	19.5	131	50 - 150
Perfluorooctanoic acid (PFOA)	16.0	15.0	94.0	50 - 150
Perfluoropentanoic acid (PFPeA)	32.0	32.0	100	50 - 150
Perfluorotetradecanoic acid (PFTA)	16.0	17.9	112	50 - 150
Perfluorotridecanoic acid (PFTrDA)	16.0	25.4	159 *	50 - 150
Perfluoroundecanoic acid (PFUnA)	16.0	16.2	101	50 - 150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24A0923

Client: Touchstone Environmental Geology, PC Project: 100 East 149th Street

Sequence: S4A1939 Instrument: LCQQQ

Calibration: SL30021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23MW-3 (24A0923-03)			Lab File ID: QQQ34586.d			Analyzed: 01/19/24 20:52			
M3PFBA	18920.78	1.234633	27167.95	1.179567	70	50 - 150	0.0551	+/-0.50	
MPFDA	7604.217	8.633917	11685.44	8.559783	65	50 - 150	0.0741	+/-0.50	
MPFHxA	19741.75	6.066566	40441.97	6.048083	49	50 - 150	0.0185	+/-0.50	*
MPFHxS	2905.934	6.926317	4054.263	6.898567	72	50 - 150	0.0278	+/-0.50	
MPFNA	12449.92	8.078116	19220.08	8.022433	65	50 - 150	0.0557	+/-0.50	
MPFOA	29253.64	7.474216	40777.55	7.437133	72	50 - 150	0.0371	+/-0.50	
MPFOS	6746.285	8.104533	9177.969	8.05815	74	50 - 150	0.0464	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	3436.953	8.068483	3513.754	8.022083	98	0 - 500	0.0464	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	27263.51	7.473834	25288.3	7.43675	108	0 - 500	0.0371	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	62383.42	4.393917	76978.1	4.375533	81	0 - 500	0.0184	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	4439.186	1.23235	108194.8	1.177267	4	0 - 500	0.0551	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	13943.82	9.633183	16241.6	9.512617	86	0 - 500	0.1206	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	2960.878	8.104	3194.697	8.057616	93	0 - 500	0.0464	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	9186.25	9.14765	9685.068	9.06405	95	0 - 500	0.0836	+/-0.50	
M7PFUdA-EIS	17386.51	9.152534	19163.46	9.05985	91	0 - 500	0.0927	+/-0.50	
M6PFDA-EIS	12595.07	8.624267	12495.23	8.5594	101	0 - 500	0.0649	+/-0.50	
M5PFHxA-EIS	34959.8	6.065383	45848.68	6.0469	76	0 - 500	0.0185	+/-0.50	
M4PFHpA-EIS	4079.584	6.825933	6006.691	6.7982	68	0 - 500	0.0277	+/-0.50	
M3PFHxS-EIS	8366.972	6.9268	8388.116	6.889783	100	0 - 500	0.0370	+/-0.50	
M3PFBS-EIS	12319.86	5.251783	12696.6	5.233333	97	0 - 500	0.0184	+/-0.50	
M3-HFPO-DA-EIS	23966.31	6.337067	35388.96	6.31855	68	0 - 500	0.0185	+/-0.50	
M2PFTeDA-EIS	6364.106	10.41445	8963.919	10.2763	71	0 - 500	0.1382	+/-0.50	
M2-8-2FTS-EIS	25657.54	8.5864	26620.13	8.521533	96	0 - 500	0.0649	+/-0.50	
M2-6-2FTS-EIS	29995.07	7.41745	18040.06	7.380367	166	0 - 500	0.0371	+/-0.50	
M2-4-2FTS-EIS	54321.22	5.999516	28490.66	5.98105	191	0 - 500	0.0185	+/-0.50	
d9-NEtFOSE-EIS	1655.944	10.38068	2537.62	10.25175	65	0 - 500	0.1289	+/-0.50	
d7-NMeFOSE-EIS	4334.316	10.07705	5608.087	9.957383	77	0 - 500	0.1197	+/-0.50	
d5-NEtFOSA-EIS	598.7929	10.4293	812.3068	10.30037	74	0 - 500	0.1289	+/-0.50	
d5-N-EtFOSAA-EIS	15682.76	9.123734	16457.33	9.0308	95	0 - 500	0.0929	+/-0.50	
d3-NMeFOSA-EIS	1275.89	10.10907	1323.173	9.9892	96	0 - 500	0.1199	+/-0.50	
d3-N-MeFOSAA-EIS	18784.36	8.8547	19512.08	8.779233	96	0 - 500	0.0755	+/-0.50	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23MW-5 (24A0923-05)			Lab File ID: QQQ34588.d			Analyzed: 01/19/24 21:24			
M3PFBA	40953.12	1.225467	27167.95	1.179567	151	50 - 150	0.0459	+/-0.50	*
MPFDA	18379.08	8.62465	11685.44	8.559783	157	50 - 150	0.0649	+/-0.50	*
MPFHxA	54129.46	6.0758	40441.97	6.048083	134	50 - 150	0.0277	+/-0.50	
MPFHxS	5693.417	6.926317	4054.263	6.898567	140	50 - 150	0.0278	+/-0.50	
MPFNA	27153.85	8.068833	19220.08	8.022433	141	50 - 150	0.0464	+/-0.50	
MPFOA	58138.82	7.474216	40777.55	7.437133	143	50 - 150	0.0371	+/-0.50	
MPFOS	12794.54	8.104533	9177.969	8.05815	139	50 - 150	0.0464	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	4094.511	8.068483	3513.754	8.022083	117	0 - 500	0.0464	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	26057.82	7.473834	25288.3	7.43675	103	0 - 500	0.0371	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	84273.8	4.4123	76978.1	4.375533	109	0 - 500	0.0368	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	15379.33	1.223167	108194.8	1.177267	14	0 - 500	0.0459	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	11419.44	9.58695	16241.6	9.512617	70	0 - 500	0.0743	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	3269.019	8.104	3194.697	8.057616	102	0 - 500	0.0464	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	8354.729	9.119817	9685.068	9.06405	86	0 - 500	0.0558	+/-0.50	
M7PFUdA-EIS	15146.86	9.1247	19163.46	9.05985	79	0 - 500	0.0648	+/-0.50	
M6PFDA-EIS	12659.44	8.615	12495.23	8.5594	101	0 - 500	0.0556	+/-0.50	
M5PFHxA-EIS	48001.85	6.074616	45848.68	6.0469	105	0 - 500	0.0277	+/-0.50	
M4PFHpA-EIS	4555.017	6.835166	6006.691	6.7982	76	0 - 500	0.0370	+/-0.50	
M3PFHxS-EIS	8753.538	6.9268	8388.116	6.889783	104	0 - 500	0.0370	+/-0.50	
M3PFBS-EIS	13133.05	5.270233	12696.6	5.233333	103	0 - 500	0.0369	+/-0.50	
M3-HFPO-DA-EIS	29114.55	6.346334	35388.96	6.31855	82	0 - 500	0.0278	+/-0.50	
M2PFTeDA-EIS	2524.831	10.34998	8963.919	10.2763	28	0 - 500	0.0737	+/-0.50	
M2-8-2FTS-EIS	27509.47	8.577133	26620.13	8.521533	103	0 - 500	0.0556	+/-0.50	
M2-6-2FTS-EIS	34475.38	7.41745	18040.06	7.380367	191	0 - 500	0.0371	+/-0.50	
M2-4-2FTS-EIS	57451.34	6.008767	28490.66	5.98105	202	0 - 500	0.0277	+/-0.50	
d9-NEtFOSE-EIS	807.5059	10.32543	2537.62	10.25175	32	0 - 500	0.0737	+/-0.50	
d7-NMeFOSE-EIS	2756.266	10.03095	5608.087	9.957383	49	0 - 500	0.0736	+/-0.50	
d5-NEtFOSA-EIS	348.9425	10.37405	812.3068	10.30037	43	0 - 500	0.0737	+/-0.50	
d5-N-EtFOSAA-EIS	13393.85	9.105166	16457.33	9.0308	81	0 - 500	0.0744	+/-0.50	
d3-NMeFOSA-EIS	629.4439	10.05377	1323.173	9.9892	48	0 - 500	0.0646	+/-0.50	
d3-N-MeFOSAA-EIS	19040.76	8.845417	19512.08	8.779233	98	0 - 500	0.0662	+/-0.50	

FORM VIII **INTERNAL STANDARD AREA AND RT SUMMARY**

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 24A0923

Client: Touchstone Environmental Geology, PC Project: 100 East 149th Street

Sequence: S4A1939 Instrument: LCQQQ

Calibration: SL30021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23MW-6 (24A0923-06)			Lab File ID: QQQ34589.d			Analyzed: 01/19/24 21:40			
M3PFBA	18655.35	1.216283	27167.95	1.179567	69	50 - 150	0.0367	+/-0.50	
MPFDA	9853.135	8.615383	11685.44	8.559783	84	50 - 150	0.0556	+/-0.50	
MPFHxA	15855.08	6.057333	40441.97	6.048083	39	50 - 150	0.0092	+/-0.50	*
MPFHxS	2847.793	6.917067	4054.263	6.898567	70	50 - 150	0.0185	+/-0.50	
MPFNA	11999.36	8.068833	19220.08	8.022433	62	50 - 150	0.0464	+/-0.50	
MPFOA	23093.78	7.464933	40777.55	7.437133	57	50 - 150	0.0278	+/-0.50	
MPFOS	6418.181	8.095266	9177.969	8.05815	70	50 - 150	0.0371	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	3480.546	8.068483	3513.754	8.022083	99	0 - 500	0.0464	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	22439.99	7.464567	25288.3	7.43675	89	0 - 500	0.0278	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	38412.77	4.366333	76978.1	4.375533	50	0 - 500	-0.0092	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	4375.279	1.213983	108194.8	1.177267	4	0 - 500	0.0367	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	14088.43	9.58695	16241.6	9.512617	87	0 - 500	0.0743	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	3162.499	8.094733	3194.697	8.057616	99	0 - 500	0.0371	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	9522.551	9.119817	9685.068	9.06405	98	0 - 500	0.0558	+/-0.50	
M7PFUdA-EIS	18081.77	9.1247	19163.46	9.05985	94	0 - 500	0.0648	+/-0.50	
M6PFDA-EIS	13797.29	8.615	12495.23	8.5594	110	0 - 500	0.0556	+/-0.50	
M5PFHxA-EIS	28793.69	6.056133	45848.68	6.0469	63	0 - 500	0.0092	+/-0.50	
M4PFHpA-EIS	3003.896	6.825933	6006.691	6.7982	50	0 - 500	0.0277	+/-0.50	
M3PFHxS-EIS	8124.236	6.917533	8388.116	6.889783	97	0 - 500	0.0277	+/-0.50	
M3PFBS-EIS	11885.66	5.233333	12696.6	5.233333	94	0 - 500	0.0000	+/-0.50	
M3-HFPO-DA-EIS	19619.61	6.327816	35388.96	6.31855	55	0 - 500	0.0093	+/-0.50	
M2PFTeDA-EIS	5782.296	10.35918	8963.919	10.2763	65	0 - 500	0.0829	+/-0.50	
M2-8-2FTS-EIS	31858.81	8.577133	26620.13	8.521533	120	0 - 500	0.0556	+/-0.50	
M2-6-2FTS-EIS	37057.54	7.408183	18040.06	7.380367	205	0 - 500	0.0278	+/-0.50	
M2-4-2FTS-EIS	53436.48	5.990283	28490.66	5.98105	188	0 - 500	0.0092	+/-0.50	
d9-NEtFOSE-EIS	1463.405	10.33463	2537.62	10.25175	58	0 - 500	0.0829	+/-0.50	
d7-NMeFOSE-EIS	4150.152	10.03095	5608.087	9.957383	74	0 - 500	0.0736	+/-0.50	
d5-NEtFOSA-EIS	616.4015	10.37405	812.3068	10.30037	76	0 - 500	0.0737	+/-0.50	
d5-N-EtFOSAA-EIS	14817.43	9.105166	16457.33	9.0308	90	0 - 500	0.0744	+/-0.50	
d3-NMeFOSA-EIS	1050.559	10.06298	1323.173	9.9892	79	0 - 500	0.0738	+/-0.50	
d3-N-MeFOSAA-EIS	18521.38	8.835333	19512.08	8.779233	95	0 - 500	0.0561	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A1939
Instrument: LCQQQ
Calibration: SL30021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23MW-7 (24A0923-07)			Lab File ID: QQQ34593.d			Analyzed: 01/19/24 22:45			
M3PFBA	15397.04	1.2071	27183.86	1.188733	57	50 - 150	0.0184	+/-0.50	
MPFDA	7016.54	8.46675	12357.69	8.587584	57	50 - 150	-0.1208	+/-0.50	
MPFHxA	12627.44	6.103517	39971.55	6.066566	32	50 - 150	0.0370	+/-0.50	*
MPFHxS	2646.242	6.917067	3968.243	6.917067	67	50 - 150	0.0000	+/-0.50	
MPFNA	10334.95	7.985133	17756.19	8.050283	58	50 - 150	-0.0652	+/-0.50	
MPFOA	21163.43	7.437133	38671.69	7.455667	55	50 - 150	-0.0185	+/-0.50	
MPFOS	5868.781	8.01175	9540.163	8.0767	62	50 - 150	-0.0650	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	2672.133	7.984766	3503.137	8.049916	76	0 - 500	-0.0652	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	20373.09	7.43675	25947.29	7.4553	79	0 - 500	-0.0186	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	46703.06	4.4031	76769.46	4.384717	61	0 - 500	0.0184	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	2822.734	1.2048	107703.8	1.18645	3	0 - 500	0.0184	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	13065.7	9.308666	15715.08	9.5777	83	0 - 500	-0.2690	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	2954.331	8.011217	2827.736	8.08545	104	0 - 500	-0.0742	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	9501.049	8.905184	8711.602	9.11055	109	0 - 500	-0.2054	+/-0.50	
M7PFUdA-EIS	13850.93	8.9013	18871.01	9.10615	73	0 - 500	-0.2048	+/-0.50	
M6PFDA-EIS	11028.81	8.466333	12492.45	8.5872	88	0 - 500	-0.1209	+/-0.50	
M5PFHxA-EIS	22251.01	6.102334	46852.2	6.065383	47	0 - 500	0.0370	+/-0.50	
M4PFHpA-EIS	2279.021	6.825933	6022.506	6.816683	38	0 - 500	0.0092	+/-0.50	
M3PFHxS-EIS	7680.769	6.917533	8166.79	6.917533	94	0 - 500	0.0000	+/-0.50	
M3PFBS-EIS	12623.06	5.297917	13024.54	5.261017	97	0 - 500	0.0369	+/-0.50	
M3-HFPO-DA-EIS	16617.99	6.36485	33594.66	6.337067	49	0 - 500	0.0278	+/-0.50	
M2PFTeDA-EIS	4304.033	10.02742	9806.385	10.35918	44	0 - 500	-0.3318	+/-0.50	
M2-8-2FTS-EIS	42021.32	8.437683	24184.56	8.549334	174	0 - 500	-0.1117	+/-0.50	
M2-6-2FTS-EIS	41676.55	7.389633	17836.96	7.3989	234	0 - 500	-0.0093	+/-0.50	
M2-4-2FTS-EIS	54729.76	6.036467	28059.14	5.999516	195	0 - 500	0.0370	+/-0.50	
d9-NEtFOSE-EIS	1408.573	10.0024	2795.468	10.33463	50	0 - 500	-0.3322	+/-0.50	
d7-NMeFOSE-EIS	3491.685	9.724883	5738.218	10.03095	61	0 - 500	-0.3061	+/-0.50	
d5-NEtFOSA-EIS	601.9762	10.05203	797.3231	10.38325	75	0 - 500	-0.3312	+/-0.50	
d5-N-EtFOSAA-EIS	15981.35	8.881817	15978.39	9.077383	100	0 - 500	-0.1956	+/-0.50	
d3-NMeFOSA-EIS	989.8187	9.748734	1360.193	10.0722	73	0 - 500	-0.3235	+/-0.50	
d3-N-MeFOSAA-EIS	18737.09	8.658767	18786.19	8.807484	100	0 - 500	-0.1487	+/-0.50	

FORM VIII

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Sequence: S4A2232
Instrument: LCQQQ
Calibration: SL30021

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
23MW-4 (24A0923-04)			Lab File ID: QQQ34676.d			Analyzed: 01/23/24 08:39			
M3PFBA	18809.63	1.179567	25958.66	1.09695	72	50 - 150	0.0826	+/-0.50	
MPFDA	9397.599	8.652467	12986.63	8.800883	72	50 - 150	-0.1484	+/-0.50	
MPFHxA	16189.72	6.03885	42679.59	6.094283	38	50 - 150	-0.0554	+/-0.50	*
MPFHxS	3049.899	6.926317	4226.589	7.056883	72	50 - 150	-0.1306	+/-0.50	
MPFNA	12949.55	8.10595	19260.82	8.275117	67	50 - 150	-0.1692	+/-0.50	
MPFOA	25702.18	7.49275	40700.76	7.6516	63	50 - 150	-0.1589	+/-0.50	
MPFOS	6282.575	8.14165	9185.858	8.310516	68	50 - 150	-0.1689	+/-0.50	
Perfluoro-n-[13C9]nonanoic acid (M9	2894.23	8.1056	3490.469	8.2747	83	0 - 500	-0.1691	+/-0.50	
Perfluoro-n-[13C8]octanoic acid (M8	25036.24	7.492383	25511.6	7.661933	98	0 - 500	-0.1696	+/-0.50	
Perfluoro-n-[13C54]pentanoic acid (M	22380.83	4.384717	75237.34	4.311183	30	0 - 500	0.0735	+/-0.50	
Perfluoro-n-[13C4]butanoic acid (MP	2065.094	1.18645	92148.54	1.09465	2	0 - 500	0.0918	+/-0.50	
Perfluoro-n-[1,2-13C2]dodecanoic ac	11623.33	9.54995	15691.19	9.633183	74	0 - 500	-0.0832	+/-0.50	
Perfluoro-1-[13C8]octanesulfonic aci	3225.899	8.141117	3372.294	8.309883	96	0 - 500	-0.1688	+/-0.50	
Perfluoro-1-[13C8]octanesulfonamid	9928.752	9.138383	9691.45	9.258984	102	0 - 500	-0.1206	+/-0.50	
M7PFUdA-EIS	14590.14	9.133984	17411.76	9.245417	84	0 - 500	-0.1114	+/-0.50	
M6PFDA-EIS	13104.91	8.652066	15311.04	8.800533	86	0 - 500	-0.1485	+/-0.50	
M5PFHxA-EIS	29629.2	6.0469	49461.19	6.093083	60	0 - 500	-0.0462	+/-0.50	
M4PFHpA-EIS	3481.37	6.825933	7886.144	6.9473	44	0 - 500	-0.1214	+/-0.50	
M3PFHxS-EIS	8399.75	6.9268	8816.032	7.057367	95	0 - 500	-0.1306	+/-0.50	
M3PFBS-EIS	13309.29	5.233333	13678.93	5.2241	97	0 - 500	0.0092	+/-0.50	
M3-HFPO-DA-EIS	19009.38	6.327816	36596.2	6.401883	52	0 - 500	-0.0741	+/-0.50	
M2PFTeDA-EIS	3629.511	10.23025	7244.486	10.2671	50	0 - 500	-0.0368	+/-0.50	
M2-8-2FTS-EIS	34207.2	8.6142	23210.19	8.771733	147	0 - 500	-0.1575	+/-0.50	
M2-6-2FTS-EIS	38695.79	7.435983	17244.87	7.594067	224	0 - 500	-0.1581	+/-0.50	
M2-4-2FTS-EIS	53220.8	5.971817	28707.31	6.027233	185	0 - 500	-0.0554	+/-0.50	
d9-NEtFOSE-EIS	1320.751	10.1965	2276.863	10.22412	58	0 - 500	-0.0276	+/-0.50	
d7-NMeFOSE-EIS	3129.587	9.929183	4193.869	9.985033	75	0 - 500	-0.0558	+/-0.50	
d5-NEtFOSA-EIS	734.8746	10.2359	819.3565	10.26353	90	0 - 500	-0.0276	+/-0.50	
d5-N-EtFOSAA-EIS	13273.3	9.105166	14322.51	9.2259	93	0 - 500	-0.1207	+/-0.50	
d3-NMeFOSA-EIS	952.8954	9.96155	1313.319	10.01688	73	0 - 500	-0.0553	+/-0.50	
d3-N-MeFOSAA-EIS	17766.63	8.863983	16612.04	9.0039	107	0 - 500	-0.1399	+/-0.50	

FORM VI

INITIAL CALIBRATION DATA (Continued)

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Calibration: SL30021
Instrument: LCQQQ
Calibration Date: 12/10/23 08:00

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
11CL-PF3OUdS	0.6859589	5.744157	9.346029	0.1345517		0.9998336	0.995	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	0.1664139	37.69462	8.599542	7.894735E-02		0.9912755	0.995	*
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	0.7741067	35.89858	5.852523	0.1775752		0.9936844	0.995	*
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	0.976033	37.28618	7.399285	0.1337222		0.9950433	0.995	
3-Perfluoroheptyl propanoic acid (FHpPA)	0.1109661	11.81339	8.222339	0.1184787		0.9996538	0.995	
3-Perfluoropentyl propanoic acid (FPePA)	0.106136	13.37784	6.816925	0.1519417		0.9996489	0.995	
3-Perfluoropropyl propanoic acid (FPrPA)	1.645867E-02	8.969101	3.951315	0.3919719		0.9990167	0.995	
9CL-PF3ONS	0.88061	12.24417	8.467583	0.1147373		0.9993034	0.995	
ADONA	0.4060931	6.18361	6.901127	0.1812827		0.999713	0.995	
d3-N-MeFOSAA	1.474449	9.43431	8.842796	0.1134793			20	
d5-N-EtFOSAA	1.137999	3.153601	9.073909	0.1221299			20	
d7-N-MeFOSE	0.1028444	7.007644	9.861119	0.2596587			20	
d9-N-EtFOSE	5.282908E-02	8.412096	10.1131	0.2585249			20	
d-N-EtFOSA	0.148203	15.28952	10.15332	0.2849932			20	
d-N-MeFOSA	0.2382141	9.188053	9.893631	0.2574112			20	
HFPO-DA (Gen-X)	1.957755E-02	7.397223	6.226069	0.1590389		0.9998558	0.995	
M2-4:2 FTS	4.856451	34.76304	5.852006	0.178768			20	*
M2-6:2 FTS	3.347005	33.52065	7.400062	0.1697086			20	*
M2-8:2 FTS	4.522713	40.14635	8.596825	0.1072454			20	*
M2PFTeDA	1.270232	10.23749	10.14498	0.2462274			20	
M3HFPO-DA	0.2661421	10.1164	6.224679	0.1667205			20	
M3PFBS	4.841878	3.611337	5.079563	0.2404766			20	
M3PFHxS	2.970258	3.402484	6.868957	0.1403811			20	
M4PFHpA	0.2187849	7.217135	6.759575	0.1529118			20	
M5PFHxA	1.554941	4.828408	5.925664	0.1753193			20	
M6PFDA	1.381859	8.522905	8.638166	0.1009175			20	
M7PFUdA	2.105751	7.848477	9.099208	0.130617			20	
M9PFNA							20	
N-EtFOSA	0.9707243	24.50595	10.16343	0.2810434		0.9992692	0.995	
N-EtFOSAA	0.9086919	5.633494	9.084721	0.1067043		0.9993373	0.995	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Calibration: SL30021
Laboratory ID: S3L1102-SCV1
Sequence: S3L1102
Standard ID: S23I340

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DIFF	QC LIMIT
Perfluorobutanesulfonic acid (PFBS)	10.0	15.6	55.6 *	30.00
Perfluorohexanoic acid (PFHxA)	10.0	13.9	38.6 *	30.00
Perfluoroheptanoic acid (PFHpA)	10.0	15.0	50.3 *	30.00
Perfluorohexanesulfonic acid (PFHxS)	10.0	14.7	47.1 *	30.00
Perfluorooctanoic acid (PFOA)	10.0	14.0	39.9 *	30.00
Perfluorooctanesulfonic acid (PFOS)	10.0	13.5	34.7 *	30.00
Perfluorononanoic acid (PFNA)	10.0	16.0	59.8 *	30.00
Perfluorodecanoic acid (PFDA)	10.0	14.8	48.5 *	30.00
Perfluoroundecanoic acid (PFUnA)	10.0	13.2	32.2 *	30.00
Perfluorododecanoic acid (PFDoA)	10.0	11.6	16.5	30.00
Perfluorotridecanoic acid (PFTrDA)	10.0	13.2	32.1 *	30.00
Perfluorotetradecanoic acid (PFTA)	10.0	14.2	41.6 *	30.00
N-MeFOSAA	10.0	13.7	36.6 *	30.00
N-EtFOSAA	10.0	13.4	34.4 *	30.00
Perfluoropentanoic acid (PFPeA)	10.0	15.0	50.4 *	30.00
Perfluoro-1-octanesulfonamide (FOSA)	10.0	13.6	36.1 *	30.00
Perfluoro-1-heptanesulfonic acid (PFHpS)	10.0	13.8	38.1 *	30.00
Perfluoro-1-decanesulfonic acid (PFDS)	10.0	13.4	34.3 *	30.00
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	10.0	13.8	38.4 *	30.00
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	10.0	13.2	32.3 *	30.00
Perfluoro-n-butanoic acid (PFBA)	10.0	15.2	51.8 *	30.00
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	10.0	13.2	31.6 *	30.00
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	10.0	16.7	67.3 *	30.00
Perfluoro-4-oxapentanoic acid (PFMPA)	10.0	14.8	47.9 *	30.00
Perfluoro-5-oxahexanoic acid (PFMBA)	10.0	14.0	40.4 *	30.00
Perfluoro-1-pentanesulfonate (PFPeS)	10.0	14.6	46.3 *	30.00
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	10.0	14.5	45.3 *	30.00

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1633 Draft 3

Laboratory: York Analytical Laboratories, Inc. - Stratford
SDG: 24A0923
Client: Touchstone Environmental Geology, PC
Project: 100 East 149th Street
Calibration: SL30021
Laboratory ID: S3L1102-SCV1
Sequence: S3L1102
Standard ID: S23I340

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DIFF	QC LIMIT
HFPO-DA (Gen-X)	10.0	16.0	60.1 *	30.00
11CL-PF3OUdS	10.0	14.3	42.7 *	30.00
9CL-PF3ONS	10.0	15.3	52.7 *	30.00
ADONA	10.0	14.0	40.4 *	30.00
Perfluorododecanesulfonic acid (PFDoS)	10.0	13.8	37.7 *	30.00
Perfluoro-1-nonanesulfonic acid (PFNS)	10.0	16.0	59.8 *	30.00
3-Perfluoropropyl propanoic acid (FPrPA)	10.0	14.6	45.6 *	30.00
3-Perfluoropentyl propanoic acid (FPePA)	10.0	13.8	37.6 *	30.00
3-Perfluoroheptyl propanoic acid (FHpPA)	10.0	13.8	38.4 *	30.00
N-MeFOSE	10.0	15.9	59.3 *	30.00
N-MeFOSA	10.0	14.2	42.0 *	30.00
N-EtFOSE	10.0	16.6	66.3 *	30.00
N-EtFOSA	10.0	12.6	26.4	30.00
M3PFBS	2.33	2.19	-6.0	
M5PFHxA	2.50	2.35	-6.2	
M4PFHpA	2.50	2.07	-17.2	
M3PFHxS	2.37	2.19	-7.6	
Perfluoro-n-[13C8]octanoic acid (M8PFOA)	2.50	2.07	-17.1	
M6PFDA	1.25	1.12	-10.5	
M7PFUdA	1.25	1.11	-11.6	
Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	1.25	1.19	-5.0	
M2PFTeDA	1.25	1.17	-6.5	
Perfluoro-n-[13C4]butanoic acid (MPFBA)	10.0	9.01	-9.9	
Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	2.40	2.35	-2.2	
Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	5.00	4.60	-8.0	
Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	2.50	2.26	-9.7	
d3-N-MeFOSAA	5.00	4.44	-11.2	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SL30021
Lab File ID:	QQQ34578.d	Calibration Date:	12/10/23 08:00
Sequence:	S4A1939	Injection Date:	01/19/24
Lab Sample ID:	S4A1939-CCV3	Injection Time:	18:42

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	10.6	0.6859589	0.7025508		12.3	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.1	0.1664139	0.1969147		5.1	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.72	0.7741067	0.8955767		3.6	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	8.90	0.976033	1.023881		-6.3	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	68.1	0.1109661	0.1248278		8.8	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	69.8	0.106136	0.1200462		11.5	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	13.2	1.645867E-02	1.695087E-02		5.9	30	
9CL-PF3ONS	A	9.35	12.4	0.88061	0.9929915		32.5	30	*
ADONA	A	9.45	10.7	0.4060931	0.4169412		12.8	30	
HFPO-DA (Gen-X)	A	10.0	12.6	1.957755E-02	2.357542E-02		26.4	30	
N-EtFOSA	A	2.50	3.49	0.9707243	1.172686		39.7	30	*
N-EtFOSAA	A	2.50	2.60	0.9086919	0.9906622		4.1	30	
N-EtFOSE	A	25.0	33.3	1.904221	2.420126		33.1	30	*
N-MeFOSA	A	2.50	3.15	0.882013	1.009212		26.2	30	
N-MeFOSAA	A	2.50	2.70	0.7785282	0.9002446		7.9	30	
N-MeFOSE	A	25.0	29.7	0.9221396	1.030435		19.0	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	5.29	0.988162	1.169506		18.9	30	
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.24	0.8088269	0.6933836		-7.1	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.28	2.615049	2.255063		-4.3	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.60	1.918226	1.661892		8.1	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.37	1.581633	1.430099		-5.1	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.25	1.382557	1.267088		-4.2	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	5.58	1.687889E-02	1.791729E-02		11.6	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SL30021
Lab File ID:	QQQ34590.d	Calibration Date:	12/10/23 08:00
Sequence:	S4A1939	Injection Date:	01/19/24
Lab Sample ID:	S4A1939-CCV4	Injection Time:	21:56

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.3	0.6859589	0.7484249		19.6	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.2	0.1664139	0.1989212		6.2	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.41	0.7741067	0.8685164		0.3	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	8.99	0.976033	1.034094		-5.3	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	66.1	0.1109661	0.1210927		5.6	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	68.9	0.106136	0.1185663		10.1	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	12.7	1.645867E-02	1.628434E-02		1.7	30	
9CL-PF3ONS	A	9.35	12.6	0.88061	1.00952		34.7	30	*
ADONA	A	9.45	11.2	0.4060931	0.438797		18.7	30	
HFPO-DA (Gen-X)	A	10.0	11.6	1.957755E-02	2.169804E-02		16.3	30	
N-EtFOSA	A	2.50	4.08	0.9707243	1.368596		63.3	30	*
N-EtFOSAA	A	2.50	2.49	0.9086919	0.9475457		-0.5	30	
N-EtFOSE	A	25.0	29.8	1.904221	2.166865		19.2	30	
N-MeFOSA	A	2.50	2.78	0.882013	0.8899583		11.3	30	
N-MeFOSAA	A	2.50	2.54	0.7785282	0.8480979		1.7	30	
N-MeFOSE	A	25.0	28.7	0.9221396	0.9962135		15.0	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	5.17	0.988162	1.144152		16.3	30	
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.58	0.8088269	0.7987736		7.1	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.72	2.615049	2.691499		14.2	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.93	1.918226	1.877103		22.1	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.73	1.581633	1.641721		9.1	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.25	1.382557	1.266191		-4.3	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	5.44	1.687889E-02	1.746657E-02		8.8	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SL30021
Lab File ID:	QQQ34601.d	Calibration Date:	12/10/23 08:00
Sequence:	S4A1939	Injection Date:	01/20/24
Lab Sample ID:	S4A1939-CCV5	Injection Time:	00:53

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	11.8	0.6859589	0.7805911		24.7	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.0	0.1664139	0.2137298		14.8	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.46	0.7741067	0.8725999		0.8	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	9.25	0.976033	1.062183		-2.6	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	65.3	0.1109661	0.1196042		4.2	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	66.6	0.106136	0.1146425		6.4	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	11.1	1.645867E-02	1.417586E-02		-11.4	30	
9CL-PF3ONS	A	9.35	13.2	0.88061	1.060165		41.5	30	*
ADONA	A	9.45	11.6	0.4060931	0.4552579		23.1	30	
HFPO-DA (Gen-X)	A	10.0	10.6	1.957755E-02	0.0198049		6.2	30	
N-EtFOSA	A	2.50	4.45	0.9707243	1.490927		78.1	30	*
N-EtFOSAA	A	2.50	2.57	0.9086919	0.9777261		2.7	30	
N-EtFOSE	A	25.0	30.4	1.904221	2.211268		21.6	30	
N-MeFOSA	A	2.50	3.06	0.882013	0.9803676		22.6	30	
N-MeFOSAA	A	2.50	2.65	0.7785282	0.8848262		6.1	30	
N-MeFOSE	A	25.0	29.2	0.9221396	1.010566		16.7	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	5.14	0.988162	1.137226		15.6	30	
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.27	0.8088269	0.701303		-6.0	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.29	2.615049	2.264054		-4.0	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.82	1.918226	1.805978		17.5	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.33	1.581633	1.406627		-6.7	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.27	1.382557	1.280171		-3.2	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	5.06	1.687889E-02	1.624928E-02		1.2	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SL30021
Lab File ID:	QQQ34666.d	Calibration Date:	12/10/23 08:00
Sequence:	S4A2232	Injection Date:	01/23/24
Lab Sample ID:	S4A2232-CCV6	Injection Time:	05:58

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
11CL-PF3OUdS	A	9.45	9.12	0.6859589	0.6036661		-3.5	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	10.9	0.1664139	0.211037		13.2	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.92	0.7741067	0.9125318		5.7	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	9.12	0.976033	1.047547		-4.0	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	78.6	0.1109661	0.1437574		25.6	30	
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	59.8	0.106136	0.1030753		-4.5	30	
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.5	1.645867E-02	1.338367E-02		-16.3	30	
9CL-PF3ONS	A	9.35	12.0	0.88061	0.9610346		28.3	30	
ADONA	A	9.45	11.6	0.4060931	0.4548174		23.0	30	
HFPO-DA (Gen-X)	A	10.0	12.4	1.957755E-02	2.320273E-02		24.4	30	
N-EtFOSA	A	2.50	3.28	0.9707243	1.101376		31.2	30	*
N-EtFOSAA	A	2.50	2.39	0.9086919	0.9098146		-4.4	30	
N-EtFOSE	A	25.0	26.8	1.904221	1.947975		7.1	30	
N-MeFOSA	A	2.50	2.93	0.882013	0.9369848		17.2	30	
N-MeFOSAA	A	2.50	2.65	0.7785282	0.8856704		6.2	30	
N-MeFOSE	A	25.0	31.9	0.9221396	1.103953		27.5	30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	5.27	0.988162	1.166006		18.5	30	
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	1.99	0.8088269	0.6168425		-17.3	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.18	2.615049	2.156292		-8.5	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.34	1.918226	1.499399		-2.4	30	
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.07	1.581633	1.248647		-17.2	30	
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.22	1.382557	1.249296		-5.5	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	5.24	1.687889E-02	1.683373E-02		4.9	30	

FORM VII

CONTINUING CALIBRATION CHECK

EPA 1633 Draft 3

Laboratory:	York Analytical Laboratories, Inc. - Stratford	SDG:	24A0923
Client:	Touchstone Environmental Geology, PC	Project:	100 East 149th Street
Instrument ID:	LCQQQ	Calibration:	SL30021
Lab File ID:	QQQ34677.d	Calibration Date:	12/10/23 08:00
Sequence:	S4A2232	Injection Date:	01/23/24
Lab Sample ID:	S4A2232-CCV7	Injection Time:	08:55

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
11CL-PF3OUdS	A	9.45	10.9	0.6859589	0.7215066		15.3	30
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	A	9.60	11.3	0.1664139	0.2179633		17.3	30
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	A	9.38	9.54	0.7741067	0.8802625		1.7	30
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	A	9.50	8.31	0.976033	0.9597855		-12.6	30
3-Perfluoroheptyl propanoic acid (FHpPA)	A	62.6	79.0	0.1109661	0.144369		26.1	30
3-Perfluoropentyl propanoic acid (FPePA)	A	62.6	60.9	0.106136	0.1048902		-2.8	30
3-Perfluoropropyl propanoic acid (FPrPA)	A	12.5	10.7	1.645867E-02	1.372324E-02		-14.2	30
9CL-PF3ONS	A	9.35	12.6	0.88061	1.009721		34.8	30 *
ADONA	A	9.45	12.0	0.4060931	0.4699957		27.1	30
HFPO-DA (Gen-X)	A	10.0	13.1	1.957755E-02	2.437762E-02		30.7	30 *
N-EtFOSA	A	2.50	3.07	0.9707243	1.032013		22.8	30
N-EtFOSAA	A	2.50	2.52	0.9086919	0.9597447		0.8	30
N-EtFOSE	A	25.0	32.9	1.904221	2.395331		31.8	30 *
N-MeFOSA	A	2.50	2.95	0.882013	0.9433884		18.0	30
N-MeFOSAA	A	2.50	2.77	0.7785282	0.9225405		10.6	30
N-MeFOSE	A	25.0	29.1	0.9221396	1.007797		16.3	30
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	A	4.45	5.41	0.988162	1.195953		21.6	30
Perfluoro-1-decanesulfonic acid (PFDS)	A	2.41	2.27	0.8088269	0.7016583		-6.0	30
Perfluoro-1-heptanesulfonic acid (PFHpS)	A	2.38	2.38	2.615049	2.35667		-0.03	30
Perfluoro-1-nonanesulfonic acid (PFNS)	A	2.40	2.61	1.918226	1.670798		8.7	30
Perfluoro-1-octanesulfonamide (FOSA)	A	2.50	2.36	1.581633	1.419707		-5.8	30
Perfluoro-1-pentanesulfonate (PFPeS)	A	2.35	2.26	1.382557	1.272958		-3.7	30
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	A	5.00	4.73	1.687889E-02	1.518946E-02		-5.4	30

Appendix C

Validator Qualifications

KENNETH R. APPLIN
Geochemist/Data Validator

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

MICHAEL K. PERRY
Chemist/Data Validator

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).

Appendix J

Soil Vapor Sampling Logs

Soil Vapor Sampling Log
100 East 149th Street, New York

Sampler Name: Firat Ataman

Sample Identification	Date Sampled: 11/29/2023		Canister Volume		Canister ID	Flow Controller No.
	Start Time	End Time	Start	Finish		
23SV1	9:00	17:00	-30	-4	37003	19416
23SV2	8:20	16:20	-30	-4	43008	19382
23SV3	9:30	17:30	-30	-3	28302	19400
23SV4	9:50	17:50	-30	-2	23797	19419
23SV5	8:45	16:45	-30	-4	37420	19417
23SV6	10:15	18:15	-30	-4	43003	19430
OA-1	9:10	17:10	-30	-2	36998	19396

Appendix K

Groundwater Sampling Logs

Project: 100 E. 149th st. Bronx, NY
Well Depth: 25 ft. Screen Length: 15 ft.
Water Level Prior to Purging: 13.04 Date: 11/17/23
Sampling Personnel: Firat Ataman
Total Volume Purged: 3 gallons
Pump Intake Depth:
PID: 79.2 ppm.

Well No.: 23MW1
Well Diameter: 2 inche
Water Level After Purging: 12.99
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	ort
11:50	18.76	6.07	42	30	0.712	527	1.73	18.3	0.461	0.35	0.0
11:55	18.80	5.61	66	15	1.05	438	0.49	5.2	0.688	0.53	0.0
12:00	18.75	5.79	56	-19	1.90	412	0.48	5.2	1.24	0.98	0.0
12:05	18.72	5.93	48	-42	2.47	261	0.56	6.1	1.60	1.29	0.0
12:10	18.74	6.05	41	-62	2.82	193	0.68	7.4	1.82	1.47	0.0

Project: 100 E 149th. St.
Well Depth: 25 ft. Screen Length: 15 ft.
Water Level Prior to Purging: 13.42 Date: 11/17/23
Sampling Personnel: Firat Ataman
Total Volume Purged: 3 gallons.
Pump Intake Depth:
PID: 71.3 ppm

Well No.: 23MW2
Well Diameter: 2 inches
Water Level After Purging: 13.46
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	ort
13:30	18.78	6.32	27	12	0.937	308	2.74	21.8	0.605	0.47	0.0
13:35	18.81	5.87	52	-18	0.989	180	0.24	2.5	0.637	0.49	0.0
13:40	18.77	5.88	51	-44	1.04	112	0.02	0.1	0.669	0.52	0.0
13:45	18.79	5.94	47	-63	1.11	61.2	0.00	0.0	0.709	0.55	0.0
13:50	18.79	5.96	46	-70	1.12	62.9	0.00	0.0	0.716	0.55	0.0
13:55	18.82	5.99	45	-77	1.14	49.7	0.00	0.0	0.726	0.56	0.0

Project: 100 E. 149th St.
Well Depth: 25 Screen Length: 15
Water Level Prior to Purging: 13.01 ft Date: 11/17/13
Sampling Personnel: Firat Ataman
Total Volume Purged: 3 gallons
Pump Intake Depth:
PID: 107.6 ppm

Well No.: 23MW3
Well Diameter: 2 inches
Water Level After Purging: 12.98
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°)	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	σt
14:10	18.87	6.87	-7	-137	0.604	258	0.00	0.0	0.388	0.29	0.0
14:15	18.76	7.94	-63	-156	0.629	211	0.00	0.0	0.404	0.31	0.0
14:20	18.75	7.19	-21	-98	0.888	182	0.00	0.0	0.585	0.45	0.0
14:25	18.76	7.10	-16	-99	0.949	178	0.00	0.0	0.614	0.47	0.0
14:30	18.81	6.88	-4	-106	1.10	162	0.00	0.0	0.712	0.55	0.0
14:35	18.44	6.80	0	-111	2.36	135	0.00	0.0	1.48	1.18	0.0

Project: 100 E. 149th. st. Bronx NY
Well Depth: 25 Screen Length: 15'
Water Level Prior to Purging: 13.27ft. Date: 11/21/2023
Sampling Personnel: Firat Ataman
Total Volume Purged: 3 gallons
Pump Intake Depth:
PID: 88.3 ppm

Well No.: 23MW4
Well Diameter: 2 inches
Water Level After Purging: 13.26
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°)	pH	PhmV	ORP mV	mS/cm	NTU	DO %	mg/L DO	g/L TDS	ppt	σt
9:20	14.22	6.81	1	1.06	1.76	170	50	500	1.13	0.89	0.0
9:25	16.51	6.67	7	-55	1.77	190	59	500	1.13	0.89	0.0
9:30	16.68	6.85	-3	-89	1.63	129	50	500	1.04	0.82	0.0
9:40	16.77	6.91	-6	-98	1.61	103	50	500	1.03	0.81	0.0
9:45	17.01	6.94	-8	-105	1.60	78.2	50	500	1.02	0.80	0.0
9:50	16.94	6.98	-10	-110	1.56	54.5	50	500	0.996	0.78	0.0

Project: 100 E. 114th st.
Well Depth: 26 Screen Length: 15 ft.
Water Level Prior to Purging: 13.91 Date: 11/21/23
Sampling Personnel: Firat Ataman
Total Volume Purged: 3 gallons.
Pump Intake Depth:
PID: 3763 ppm

Well No.: 23MW5
Well Diameter: 2 inches
Water Level After Purging: 13.93
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°)	pH	PhmV	ORP mV	mS/cm	NTU	% mg/L DO	% DO	g/L TDS	ppt	ORP
10:20	12.14	7.38	-31	-59	1.76	281	1.41	11.5	1.19	0.93	0.3
10:25	13.13	7.20	-22	-96	1.85	247	0.85	8.2	1.19	0.93	0.2
10:30	13.73	7.18	-20	-117	1.89	268	1.14	11.1	1.20	0.95	0.1
10:35	13.66	7.01	-11	-112	2.34	225	1.56	15.3	1.50	1.84	0.3
10:40	16.11	6.88	-4	-102	2.43	208	1.77	18.1	1.55	1.24	0.0
10:45	16.00	6.94	-7	-103	2.45	207	2.06	21.1	1.57	1.26	0.0

Project: 100, 149th. st. Bronx, NY
Well Depth: 25ft. Screen Length: 15ft.
Water Level Prior to Purging: 13.01 Date: 11/21/23
Sampling Personnel: Firat Ataman
Total Volume Purged: 3 Gallons.
Pump Intake Depth:
PID: 96.8 ppm

Well No.: 23MW6
Well Diameter: 2 inches.
Water Level After Purging: 13.06
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	σt
11:25	15.16	7.30	-27	-44	1.52	452	0.00	0.0	1.08	0.88	0.0
11:30	~~14.56~~	6.98	-10	-91	1.93	308	0.00	0.0	1.24	0.98	0.0
11:35	14.90	6.94	-8	-141	1.96	216	0.00	0.0	1.25	0.99	0.0
11:40	15.13	6.95	-8	-160	2.00	16	0.00	0.0	1.28	1.02	0.0
11:45	15.63	6.98	-10	-194	1.96	58.4	0.00	0.0	1.25	1.00	0.00
11:50	15.59	7.00	-11	-204	1.96	52.1	0.00	0.0	1.25	0.99	0.0

Project: 100 149th St. Bronx, NY
Well Depth: 25 ft. Screen Length: 15 ft.
Water Level Prior to Purging: 12.98 Date: 11/21/23
Sampling Personnel: Firat Ataman
Total Volume Purged:
Pump Intake Depth:
PID: 329.1 ppm

Well No.: 23MW7
Well Diameter:
Water Level After Purging:
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	σt
12:25	10.62	7.03	-12	-84	0.796	235	0.00	0.0	0.515	0.39	0.0
12:30	12.22	7.25	-24	-103	0.828	239	0.00	0.0	0.529	0.40	0.0
12:35	12.82	7.28	-26	-105	0.823	240	0.00	0.0	0.527	0.40	0.0
12:40	13.61	7.30	-27	-103	0.914	184	0.00	0.0	0.586	0.45	0.0
12:45											
12:50	14.08	7.22	-23	-144	0930	177	0.00	0.0	0.595	0.46	0.0

Project: 100 E. 149th St.
Well Depth: 23 ft. Screen Length: 15'
Water Level Prior to Purging: 11.48 Date: 11/17/23
Sampling Personnel: Firat Ataman
Total Volume Purged: 2.5 Gallons
Pump Intake Depth:
PID: 84.3

Well No.: 23MW8
Well Diameter: 2 inches
Water Level After Purging: 11.41
Pump Type: Geotech Peri Pump with a flow trough cell, HORIBA
Pump Rate:

Time	Temperature (C°)	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	σt
7:55	12.64	6.83	-2	102	0.000	332	6.37	58.4	0.000	0.00	0.0
8:00	12.82	8.73	-103	61	0.491	160	2.82	24.1	0.639	0.49	0.0
8:05	13.45	7.11	-15	-10	0.989	121	0.90	8.7	0.632	0.48	0.0
8:10	13.95	6.34	-15	-16	0.974	78.5	0.64	6.1	0.623	0.48	0.0
8:15	14.29	6.02	42	-18	0.970	59.7	1.16	10.5	0.621	0.48	0.0
8:20	14.73	5.77	56	-19	0.978	51.5	1.32	12.9	0.626	0.48	0.0

Project: 100 E. 149th St.
Well Depth: 23 Screen Length: 15
Water Level Prior to Purging: 12.55 Date: 11/17/23
Sampling Personnel: Firat Ataman
Total Volume Purged: 2.5 gallons
Pump Intake Depth:
PID: 5.9 ppm

Well No.: 23MW9
Well Diameter: 2 inches
Water Level After Purging: 12.71
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	σt
9:20	18.76	5.67	62	34	3.91	162	0.44	4.0	2.70	2.27	0.3
9.25	18.97	5.80	55	-29	4.86	101	0.04	0.5	3.11	2.60	0.5
9:30	18.85	5.87	51	-51	5.01	92.4	0.00	0.0	3.16	2.68	0.6
~~9:35~~	18.79	5.93	48	-63	4.98	53.0	0.00	0.0	3.19	2.67	0.6
9:40	18.94	5.96	47	-70	4.91	54.7	0.00	0.0	3.14	2.62	0.6
9:45	18.96	5.98	45	-74	4.86	51.2	0.00	0.0	3.11	2.59	0.5

Project: 100 E. 149th. St.
Well Depth: 27.5 feet. Screen Length: 15 feet
Water Level Prior to Purging: 13.25 Date: 11/7/23
Sampling Personnel: Firat Ataman
Total Volume Purged: 3 gallons
Pump Intake Depth:
DO: 394.5 ppm

Well No.: 23MW10
Well Diameter: 2 inches
Water Level After Purging: 13.22 feet
Pump Type: Geotech Peri Pump with a flow trough cell
Pump Rate:

Time	Temperature (C°	pH	PhmV	ORP mV	mS/cm	NTU	mg/L DO	% DO	g/L TDS	ppt	σt
10:40	21.47	5.92	49	-18	1.23	122	0.00	0.0	0.786	0.61	0.0
10:45	21.74	5.89	51	-37	1.44	157	0.00	0.0	0.967	0.77	0.0
10:50	21.84	6.05	42	-75	5.12	158	0.00	0.0	3.24	2.76	0.1
10:55	21.60	6.14	37	-84	5.32	145	0.00	0.0	3.34	2.86	0.2
11:00	21.60	6.18	35	-87	5.19	130	0.00	0.0	3.27	2.79	0.1
11:05	21.57	6.19	34	-90	5.23	102	0.00	0.0	3.29	2.81	0.1

Appendix L

Laboratory Data Deliverables

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 11/21/2023
Client Project ID: 220293 100 East 149th Street
York Project (SDG) No.: 23K0580

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/21/2023
Client Project ID: 220293 100 East 149th Street
York Project (SDG) No.: 23K0580

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 08, 2023 and listed below. The project was identified as your project: **220293 100 East 149th Street**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K0580-01	23SP9 (0-2.5ft)	Soil	11/06/2023	11/08/2023
23K0580-02	23SP9 (10-12.5ft)	Soil	11/06/2023	11/08/2023
23K0580-03	23SP9 (12.5-15ft)	Soil	11/06/2023	11/08/2023
23K0580-04	23SP9 (25-27.5ft)	Soil	11/06/2023	11/08/2023
23K0580-05	23SP8 (0-2.5ft)	Soil	11/06/2023	11/08/2023
23K0580-06	23SP8 (10-12.5ft)	Soil	11/06/2023	11/08/2023
23K0580-07	23SP8 (14-16ft)	Soil	11/06/2023	11/08/2023
23K0580-08	23SP8 (25-27.5ft)	Soil	11/06/2023	11/08/2023
23K0580-09	Trip Blank 11-06-23	Water	11/06/2023	11/08/2023
23K0580-10	PFAS Field Blank	Water	11/06/2023	11/08/2023
23K0580-11	23SP10 (0-2.5ft)	Soil	11/06/2023	11/08/2023
23K0580-12	23SP10 (12.5-15ft)	Soil	11/06/2023	11/08/2023
23K0580-13	23SP10 (18-22ft)	Soil	11/06/2023	11/08/2023
23K0580-14	23SP10 (25-27.5ft)	Soil	11/06/2023	11/08/2023
23K0580-15	23SP1 (0-2.5ft)	Soil	11/07/2023	11/08/2023
23K0580-16	23SP1 (10-12.5ft)	Soil	11/07/2023	11/08/2023
23K0580-17	23SP1 (12.5-15ft)	Soil	11/07/2023	11/08/2023
23K0580-18	23SP1 (22.5-25ft)	Soil	11/07/2023	11/08/2023
23K0580-20	Trip Blank 11-07-23	Water	11/07/2023	11/08/2023

General Notes for York Project (SDG) No.: 23K0580

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Date: 11/21/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.056	0.11	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.0068**	J	mg/kg dry	0.0056	0.011	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0056	0.011	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	CCVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0056	0.011	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0028	0.0056	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0084	0.017	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.1 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 18:48	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/15/2023 23:06	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/15/2023 23:06	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/15/2023 23:06	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.0698**	J	mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	**3,3-Dichlorobenzidine**	**0.0489**	J	mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	**Acenaphthylene**	**0.0669**	J	mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.180	0.361	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.752**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
92-87-5	Benzidine	ND		mg/kg dry	0.180	0.361	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/15/2023 23:06	KH
56-55-3	**Benzo(a)anthracene**	**1.71**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
50-32-8	**Benzo(a)pyrene**	**1.25**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
205-99-2	**Benzo(b)fluoranthene**	**1.55**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.714**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
207-08-9	**Benzo(k)fluoranthene**	**0.725**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.369**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:06	KH
86-74-8	**Carbazole**	**0.127**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
218-01-9	**Chrysene**	**1.65**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.195**		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:06	KH
117-84-0	**Di-n-octyl phthalate**	**0.0576**	J	mg/kg dry	0.0451	0.0900	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:06	KH

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0900	0.180	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:			
206-44-0	**Fluoranthene**	**3.72**		mg/kg dry	0.113	0.225	5	EPA 8270D	11/14/2023 15:39	11/16/2023 10:40	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	Fluorene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.851**		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
78-59-1	Isophorone	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**2.05**		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0451	0.0900	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:06	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**3.62**		mg/kg dry	0.113	0.225	5	EPA 8270D	11/14/2023 15:39	11/16/2023 10:40	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*43.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*45.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*40.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*42.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*39.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*62.5 %*	*24-116*

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/15/2023 23:56	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*52.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.121	0.194	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0580	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.115	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.196	0.200	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.188	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.183	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.207	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.209	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.217	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.178	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.137	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.113	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.162	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.212	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.119	0.437	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.160	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.170	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.209	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.651	0.831	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.826	0.840	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.119	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.152	0.389	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.211	0.437	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0678	0.437	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.105	0.437	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.172	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.651	0.820	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.665	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.340	0.827	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.269	0.818	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.190	0.827	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.185	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.136	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 12:53	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.693	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.29	5.47	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.64	5.47	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.668	2.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.197	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.762	2.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.217	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 12:53	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*109 %*	*25-150*
Surrogate: M5PFHxA	*115 %*	*25-150*
Surrogate: M4PFHpA	*134 %*	*25-150*
Surrogate: M3PFHxS	*133 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*102 %*	*25-150*
Surrogate: M6PFDA	*116 %*	*25-150*
Surrogate: M7PFUdA	*109 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*89.1 %*	*25-150*
Surrogate: M2PFTeDA	*87.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*106 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*100 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*123 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*97.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*85.0 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*99.5 %*	*25-150*
Surrogate: M2-6:2 FTS	*72.3 %*	*25-200*
Surrogate: M2-8:2 FTS	*78.0 %*	*25-200*
Surrogate: M9PFNA	*115 %*	*25-150*
Surrogate: M2-4:2 FTS	*68.9 %*	*25-150*
Surrogate: d-N-MeFOSA	*70.6 %*	*25-150*
Surrogate: d-N-EtFOSA	*89.4 %*	*25-150*
Surrogate: M3HFPO-DA	*126 %*	*25-150*
Surrogate: d9-N-EtFOSE	*108 %*	*25-150*
Surrogate: d7-N-MeFOSE	*119 %*	*25-150*

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:06	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	35.9	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/13/2023 20:23	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
72-20-8	Endrin	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:23	BCJ

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:23	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.96	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:23	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	90.7	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:23	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*66.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/14/2023 23:57	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8830**		mg/kg dry	4.60	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.30	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**4.14**		mg/kg dry	1.38	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**96.4**		mg/kg dry	2.30	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.276	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**30900**	B	mg/kg dry	4.60	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**15.3**		mg/kg dry	0.461	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.10**		mg/kg dry	0.368	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**51.5**		mg/kg dry	1.84	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**12800**		mg/kg dry	23.0	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**143**	B	mg/kg dry	0.461	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**7180**		mg/kg dry	4.61	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**229**		mg/kg dry	0.461	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**14.1**		mg/kg dry	0.917	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1890**		mg/kg dry	4.61	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.67**		mg/kg dry	2.30	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.464	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**739**		mg/kg dry	46.0	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.30	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**20.5**		mg/kg dry	0.917	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**36.3**		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP9 (0-2.5ft) **York Sample ID:** 23K0580-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:00 am	11/08/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.277**		mg/kg dry	0.0331	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.552	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.3**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.552**		mg/kg dry	0.552	1	EPA 9014/9010C	11/10/2023 14:43	11/10/2023 21:42	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.5**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP9 (10-12.5ft)** **York Sample ID:** **23K0580-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	**1,2,4-Trimethylbenzene**	**0.013**		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	**1,3,5-Trimethylbenzene**	**0.0049**	J	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.083	0.17	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.013**	J	mg/kg dry	0.0083	0.017	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0083	0.017	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.015**		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	CCVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0083	0.017	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	**n-Propylbenzene**	**0.0048**	J	mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	o-Xylene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.026**		mg/kg dry	0.0083	0.017	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0042	0.0083	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.026**		mg/kg dry	0.012	0.025	1	EPA 8260D	11/12/2023 08:00	11/12/2023 19:16	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: **23SP9 (10-12.5ft)** **York Sample ID:** **23K0580-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*100 %*		*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.0 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*		*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 19:16	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/15/2023 23:44	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/15/2023 23:44	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/15/2023 23:44	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.245**		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.210	0.420	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
92-87-5	Benzidine	ND		mg/kg dry	0.210	0.420	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/15/2023 23:44	KH
56-55-3	**Benzo(a)anthracene**	**0.0788**	J	mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:44	KH
50-32-8	**Benzo(a)pyrene**	**0.0880**	J	mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:44	KH
205-99-2	**Benzo(b)fluoranthene**	**0.0846**	J	mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:44	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.0729**	J	mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:44	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.209	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 23:44	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
218-01-9	**Chrysene**	**0.110**		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 23:44	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 23:44	KH

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.105	0.209	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:			
206-44-0	**Fluoranthene**	**0.115**		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	Fluorene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0553**	J	mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
78-59-1	Isophorone	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.310**		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0980**	J	mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.196**		mg/kg dry	0.0525	0.105	2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*65.7 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*67.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*62.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.0 %*	*24-116*

Sample Information

Client Sample ID: **23SP9 (10-12.5ft)** **York Sample ID:** **23K0580-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0192	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 00:13	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*44.7 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.142	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0678	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.134	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.229	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.220	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.649**		ug/kg dry	0.214	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.242	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.244	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.253	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.208	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.160	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.132	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.189	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.248	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.139	0.511	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.187	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.198	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.244	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.761	0.972	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.965	0.982	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.139	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.178	0.455	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.247	0.511	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0793	0.511	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.123	0.511	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.201	0.240	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.761	0.959	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.777	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.398	0.967	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.315	0.956	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.222	0.967	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.216	0.248	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.159	0.245	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:09	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.811	1.28	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.68	6.39	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.92	6.39	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.781	2.56	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.230	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.891	2.56	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ

Sample Information

Client Sample ID: **23SP9 (10-12.5ft)** **York Sample ID:** **23K0580-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.253	0.256	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:09	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*126 %*	*25-150*
Surrogate: M5PFHxA	*138 %*	*25-150*
Surrogate: M4PFHpA	*149 %*	*25-150*
Surrogate: M3PFHxS	*152 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*117 %*	*25-150*
Surrogate: M6PFDA	*145 %*	*25-150*
Surrogate: M7PFUdA	*125 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*117 %*	*25-150*
Surrogate: M2PFTeDA	*102 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*123 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*117 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*143 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*118 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*91.8 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*121 %*	*25-150*
Surrogate: M2-6:2 FTS	*63.1 %*	*25-200*
Surrogate: M2-8:2 FTS	*63.2 %*	*25-200*
Surrogate: M9PFNA	*136 %*	*25-150*
Surrogate: M2-4:2 FTS	*63.9 %*	*25-150*
Surrogate: d-N-MeFOSA	*82.0 %*	*25-150*
Surrogate: d-N-EtFOSA	*114 %*	*25-150*
Surrogate: M3HFPO-DA	*144 %*	*25-150*
Surrogate: d9-N-EtFOSE	*158 %*	*25-150*
Surrogate: d7-N-MeFOSE	*188 %*	*25-150*

Sample Information

Client Sample ID: 23SP9 (10-12.5ft)

York Sample ID: 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.8 (01)**	**1.49**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Benzene Isomer RT 5.8 (02)**	**5.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Benzene Isomer RT 5.8 (03)**	**4.05**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Benzene Isomer RT 5.9**	**1.06**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Benzene Isomer RT 6.2**	**1.17**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Benzene Isomer RT 6.3 (01)**	**1.02**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Benzene Isomer RT 6.3 (02)**	**1.65**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Dimethyl Cyclohexane Isomer...**	**1.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Trimethyl Cyclohexane Isome...**	**2.31**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown Hydrocarbon RT 4.0**	**1.28**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown Hydrocarbon RT 4.5**	**0.938**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown Hydrocarbon RT 5.1 (01)**	**1.47**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown Hydrocarbon RT 5.1 (02)**	**1.32**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 4.2**	**1.05**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 4.5**	**1.74**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 4.6**	**1.15**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 4.7**	**1.81**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 4.9**	**1.55**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 5.1**	**1.74**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 5.3 (01)**	**1.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH
NA	**Unknown RT 5.3 (02)**	**4.25**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/15/2023 23:44	KH

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 5.7**	**1.18**	J	mg/kg dry			2	EPA 8270D	11/14/2023 15:39	11/15/2023 23:44	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	42.3	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.12	5	EPA 8081B	11/12/2023 08:00	11/13/2023 20:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:45	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	10.6	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:45	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	107	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 20:45	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*43.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 00:10	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 00:10	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 00:10	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 00:10	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 00:10	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 00:10	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 00:10	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/14/2023 08:38	11/15/2023 00:10	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**22900**		mg/kg dry	5.36	1	EPA 6010D Certifications:	11/09/2023 21:47 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 14:32	CEG
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.68	1	EPA 6010D Certifications:	11/09/2023 21:47 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:32	CEG

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**5.60**		mg/kg dry	1.61	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**86.9**		mg/kg dry	2.68	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.322	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**3300**	B	mg/kg dry	5.36	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**26.6**		mg/kg dry	0.536	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**8.05**		mg/kg dry	0.428	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**16.0**		mg/kg dry	2.14	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**20600**		mg/kg dry	26.8	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**26.3**	B	mg/kg dry	0.536	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**3480**		mg/kg dry	5.36	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**313**		mg/kg dry	0.536	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**16.8**		mg/kg dry	1.07	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1420**		mg/kg dry	5.36	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**6.85**		mg/kg dry	2.68	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.540	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	53.6	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.68	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.4**		mg/kg dry	1.07	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**65.9**		mg/kg dry	2.67	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP9 (10-12.5ft) **York Sample ID:** 23K0580-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:15 am	11/08/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0689**		mg/kg dry	0.0386	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.643	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**26.6**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.643	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.7**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP9 (12.5-15ft)** **York Sample ID:** **23K0580-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**1.4**		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**0.70**	J	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	9.8	20	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **23SP9 (12.5-15ft)** **York Sample ID:** **23K0580-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND		mg/kg dry	0.98	2.0	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.98	2.0	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**1.9**		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	CCVE	mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**16**		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.98	2.0	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**5.2**		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**7.0**		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	o-Xylene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.98	2.0	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	**sec-Butylbenzene**	**2.4**		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.49	0.98	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		mg/kg dry	1.5	2.9	100	EPA 8260D	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*65.4 %*	S-04, S-08		*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.7 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**6.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Benzene ethyldimethyl isomer**	**8.7**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Cyclohexane ethyl isomer**	**6.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Cyclopentane dimethyl isomer**	**6.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Cyclopentene trimethyl isomer**	**14**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Dimethylheptene isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Heptane dimethyl isomer**	**7.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Heptane methyl isomer**	**6.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Heptane oxybis isomer**	**21**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Hexane ethyl isomer**	**25**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Hexane methyl isomer**	**8.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Hexane methylmethylene isomer**	**5.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Hexane trimethyl isomer**	**6.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Pentane dimethyl isomer**	**5.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Pentane methyl isomer**	**5.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF
NA	**Pentatriacontene isomer**	**8.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 00:46	SKF

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Trimethylbicycloheptylamine...**	**18**	J	mg/kg dry			100	EPA 8260C	11/12/2023 08:00	11/13/2023 00:46	SKF
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.130	0.260	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	NELAC-NY10854,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	NELAC-NY10854,PADEP-68-04440		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	NELAC-NY10854,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-57-6	**2-Methylnaphthalene**	**0.103**	J	mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D	11/14/2023 15:39	11/16/2023 00:19	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 00:19	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.130	0.260	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.130	0.260	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 00:19	KH
62-53-3	Aniline	ND		mg/kg dry	0.261	0.521	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 00:19	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:19	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 00:19	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 00:19	KH
92-87-5	Benzidine	ND		mg/kg dry	0.261	0.521	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 00:19	KH
56-55-3	**Benzo(a)anthracene**	**0.0780**	J	mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 00:19	KH
50-32-8	**Benzo(a)pyrene**	**0.0822**	J	mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 00:19	KH
205-99-2	**Benzo(b)fluoranthene**	**0.0926**	J	mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 00:19	KH

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.130	0.260	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**0.0780**	J	mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	**Di-n-octyl phthalate**	**0.222**		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
122-39-4	* Diphenylamine	ND		mg/kg dry	0.130	0.260	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH
206-44-0	**Fluoranthene**	**0.138**		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.390**		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.110**	J	mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**0.127**	J	mg/kg dry	0.0652	0.130	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*67.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*64.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*60.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*86.3 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0194	1	EPA 8270D SIM Certifications:	11/14/2023 08:14	11/15/2023 16:38	KH NELAC-NY10854

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*63.2 %*	*39-127.5*

Sample Information

Client Sample ID: **23SP9 (12.5-15ft)** **York Sample ID:** **23K0580-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.176	0.280	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0839	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.166	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.283	0.290	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.272	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.395**		ug/kg dry	0.264	0.294	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.299	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.302	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.313	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.258	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.198	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.163	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.234	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.307	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.173	0.633	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.231	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.245	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.302	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.942	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.19	1.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.173	1.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.220	0.563	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.305	0.633	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0981	0.633	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.152	0.633	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.248	0.298	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.942	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.962	1.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.492	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.389	1.18	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.275	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.267	0.307	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.196	0.304	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:25	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	1.00	1.58	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.32	7.91	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.37	7.91	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.967	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.285	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.10	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.313	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:25	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*124 %*	*25-150*
Surrogate: M5PFHxA	*123 %*	*25-150*
Surrogate: M4PFHpA	*131 %*	*25-150*
Surrogate: M3PFHxS	*155 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*	*25-150*
Surrogate: M6PFDA	*133 %*	*25-150*

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*133 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*109 %*			*25-150*						
	Surrogate: M2PFTeDA	*99.1 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*81.6 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*114 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*129 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*106 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*88.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*119 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*67.7 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*76.6 %*			*25-200*						
	Surrogate: M9PFNA	*115 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*59.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*69.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*89.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*127 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*166 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*191 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzamide Isomer RT 11.7**	**5.45**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH
NA	**Benzene Isomer RT 5.8**	**2.23**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH
NA	**trimethyl Benzene Isomer RT...**	**1.70**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH
NA	**Unknown PAH RT 13.8**	**1.91**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH
NA	**Unknown RT 12.0**	**1.36**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:19	KH

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	52.2	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.61	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	13.0	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	132	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:07	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.3 %*	*30-150*

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.4 %*		*30-150*						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0265	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:24	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11500**		mg/kg dry	6.67	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	3.34	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**15.9**		mg/kg dry	2.00	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**232**		mg/kg dry	3.33	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.067	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.400	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**30400**	B	mg/kg dry	6.67	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**20.3**		mg/kg dry	0.668	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.90**		mg/kg dry	0.533	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**68.7**		mg/kg dry	2.67	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**16900**		mg/kg dry	33.4	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**432**	B	mg/kg dry	0.668	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**2570**		mg/kg dry	6.68	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**268**		mg/kg dry	0.668	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.7**		mg/kg dry	1.33	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2060**		mg/kg dry	6.68	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**6.65**		mg/kg dry	3.34	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.673	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**2370**		mg/kg dry	66.7	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.34	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**33.6**		mg/kg dry	1.33	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**45.0**		mg/kg dry	3.32	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**12.4**		mg/kg dry	0.0481	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP9 (12.5-15ft) **York Sample ID:** 23K0580-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:20 am	11/08/2023

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.801	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**20.3**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.801	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**62.4**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.0050**	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
123-91-1	1,4-Dioxane	ND	IS-LO	mg/kg dry	0.045	0.090	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	2-Butanone	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
591-78-6	2-Hexanone	ND	ICVE, IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-64-1	**Acetone**	**0.026**	ICVE, IS-LO	mg/kg dry	0.0045	0.0090	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
107-02-8	Acrolein	ND	IS-LO	mg/kg dry	0.0045	0.0090	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	Benzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-97-5	Bromochloromethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND	IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND	ICVE, IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND	CCVE, IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-00-3	Chloroethane	ND	CCVE, IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-66-3	Chloroform	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-87-3	Chloromethane	ND	CCVE, IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-59-2	cis-1,2-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
110-82-7	Cyclohexane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
124-48-1	Dibromochloromethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
74-95-3	Dibromomethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-71-8	Dichlorodifluoromethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
100-41-4	**Ethyl Benzene**	**0.0046**	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
98-82-8	Isopropylbenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-20-9	Methyl acetate	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 16:36 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	**Methylcyclohexane**	**0.0027**	IS-LO, J	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	**Methylene chloride**	**0.010**	IS-LO	mg/kg dry	0.0045	0.0090	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND	IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.0076**	IS-LO, J	mg/kg dry	0.0045	0.0090	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	p-Isopropyltoluene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND	IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02, CCVE, IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND	IS-LO, QL-02	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE, IS-LO	mg/kg dry	0.0023	0.0045	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.0076**	IS-LO, J	mg/kg dry	0.0068	0.014	1	EPA 8260D	11/13/2023 09:00	11/13/2023 16:36	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*132 %*	IS-LO, S-03, S-08	*77-125*

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: SURR: Toluene-d8*	*85.5 %*	IS-LO		*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*89.0 %*	IS-LO		*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 16:36	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 00:56	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 00:56	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 15:39	11/16/2023 00:56	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 00:56	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 15:39	11/16/2023 00:56	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 15:39	11/16/2023 00:56	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 00:56	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 00:56	KH

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		mg/kg dry	0.195	0.390	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0974	0.195	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 00:56	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
108-95-2	Phenol	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0488	0.0974	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 00:56	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*75.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*71.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*63.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*65.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.0 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP9 (25-27.5ft)** **York Sample ID:** **23K0580-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0194	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/14/2023 08:14	11/15/2023 16:56	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.6 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.130	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0622	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.123	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.210	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.202	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.196	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.222	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.224	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.232	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.191	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.147	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.121	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.174	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.228	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.128	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.171	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.182	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.224	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.698	0.892	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.886	0.901	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.128	0.939	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.163	0.418	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.227	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0728	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.113	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.184	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.698	0.880	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.714	0.939	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.365	0.887	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.289	0.878	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.204	0.887	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.198	0.228	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.146	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:41	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.744	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.46	5.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.76	5.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.717	2.35	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.211	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.818	2.35	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.232	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:41	ESJ

Sample Information

Client Sample ID: **23SP9 (25-27.5ft)** **York Sample ID:** **23K0580-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
	Surrogate: M3PFBS	*118 %*		*25-150*							
	Surrogate: M5PFHxA	*130 %*		*25-150*							
	Surrogate: M4PFHpA	*141 %*		*25-150*							
	Surrogate: M3PFHxS	*143 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*117 %*		*25-150*							
	Surrogate: M6PFDA	*120 %*		*25-150*							
	Surrogate: M7PFUdA	*108 %*		*25-150*							
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*102 %*		*25-150*							
	Surrogate: M2PFTeDA	*72.6 %*		*10-150*							
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*118 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*92.1 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*144 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*83.2 %*		*10-150*							
	Surrogate: d3-N-MeFOSAA	*65.9 %*		*25-150*							
	Surrogate: d5-N-EtFOSAA	*72.3 %*		*25-150*							
	Surrogate: M2-6:2 FTS	*46.3 %*		*25-200*							
	Surrogate: M2-8:2 FTS	*37.2 %*		*25-200*							
	Surrogate: M9PFNA	*124 %*		*25-150*							
	Surrogate: M2-4:2 FTS	*50.5 %*		*25-150*							
	Surrogate: d-N-MeFOSA	*52.4 %*		*25-150*							
	Surrogate: d-N-EtFOSA	*81.3 %*		*25-150*							
	Surrogate: M3HFPO-DA	*128 %*		*25-150*							
	Surrogate: d9-N-EtFOSE	*91.7 %*		*25-150*							
	Surrogate: d7-N-MeFOSE	*123 %*		*25-150*							

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 00:56	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-55-9	4,4'-DDE	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/kg dry	38.8	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53494-70-5	Endrin ketone	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 21:29	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.94	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.70	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	98.1	5	EPA 8081B	11/12/2023 08:00	11/13/2023 21:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*90.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0194	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:38	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*75.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*91.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11800**		mg/kg dry	4.98	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**3.24**		mg/kg dry	1.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**48.1**		mg/kg dry	2.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.050	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.299	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1800**	B	mg/kg dry	4.98	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**22.2**		mg/kg dry	0.498	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.26**		mg/kg dry	0.398	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**22.8**		mg/kg dry	1.99	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**14700**		mg/kg dry	24.9	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**7.57**	B	mg/kg dry	0.498	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**6730**		mg/kg dry	4.98	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**95.3**		mg/kg dry	0.498	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**14.9**		mg/kg dry	0.992	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1690**		mg/kg dry	4.98	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**4.24**		mg/kg dry	2.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.502	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**80.2**		mg/kg dry	49.8	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**26.5**		mg/kg dry	0.992	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**55.6**		mg/kg dry	2.48	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP9 (25-27.5ft) **York Sample ID:** 23K0580-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:35 am	11/08/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0358	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.597	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**22.2**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.597	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.7**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP8 (0-2.5ft)** **York Sample ID:** **23K0580-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	**1,2,4-Trimethylbenzene**	**0.11**		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	**1,3,5-Trimethylbenzene**	**0.037**		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.054	0.11	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0054	0.011	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.0077**		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.083**		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.15**		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**0.020**		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.21**		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0054	0.011	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**0.011**		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**0.062**		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**0.018**		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.23**		mg/kg dry	0.0054	0.011	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**0.0030**	J	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**0.0048**	J	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**0.011**		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0027	0.0054	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.24**		mg/kg dry	0.0081	0.016	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:11	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*55.6 %*	S-04, S-08		*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.9 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyldimethyl isomer**	**0.019**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Benzene ethylmethyl isomer**	**0.021**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Cyclobutane methylethyliden...**	**0.029**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Cyclohexane dimethyl isomer**	**0.024**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Cyclopentane dimethyl trans...**	**0.027**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Cyclopentane methyl isomer**	**0.050**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Cyclopentene dimethyl isomer**	**0.044**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Cyclopentene trimethyl isomer**	**0.059**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Heptane methyl isomer**	**0.029**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Hexadiene dimethyl isomer**	**0.058**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Hexane isomer**	**0.018**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Hexane methyl isomer**	**0.027**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**indane isomer**	**0.032**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Octane methyl isomer**	**0.037**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF
NA	**Pentane methyl isomer**	**0.030**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:11	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP8 (0-2.5ft)** **York Sample ID:** **23K0580-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 01:34	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 01:34	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/16/2023 01:34	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 01:34	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/16/2023 01:34	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,PADEP-68-04440	11/16/2023 01:34	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 01:34	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 01:34	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 01:34	KH

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.129**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.0563**	J	mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.181	0.362	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.459**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.181	0.362	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.18**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.901**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**1.15**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.497**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.376**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.180**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
105-60-2	Caprolactam	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	**Carbazole**	**0.0874**	J	mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
218-01-9	**Chrysene**	**1.08**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.134**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	**Dibenzofuran**	**0.0730**	J	mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0904	0.181	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH
206-44-0	**Fluoranthene**	**2.23**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.137**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.592**		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.0672**	J	mg/kg dry	0.0453	0.0904	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.37**		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**2.79**		mg/kg dry	0.0453	0.0904	2	EPA 8270D	11/14/2023 15:39	11/16/2023 01:34	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*33.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*38.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*30.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*35.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*27.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*53.9 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0185	1	EPA 8270D SIM	11/14/2023 08:14	11/15/2023 14:33	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.5 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.122	0.194	1	EPA 1633 Draft 3	11/14/2023 13:41	11/16/2023 13:57	ESJ
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0580	0.219	1	EPA 1633 Draft 3	11/14/2023 13:41	11/16/2023 13:57	ESJ
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.115	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.196	0.200	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.188	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.183	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.207	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.209	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.217	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.178	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.137	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.113	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.162	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.212	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.119	0.438	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.160	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.170	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.209	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.652	0.832	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.827	0.841	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.119	0.876	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.152	0.390	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.211	0.438	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0679	0.438	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.105	0.438	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.172	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.652	0.821	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.666	0.876	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.341	0.828	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.269	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.191	0.828	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.185	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.136	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 13:57	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.694	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.30	5.48	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.64	5.48	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.669	2.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.197	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.763	2.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.217	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 13:57	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*92.2 %*	*25-150*
Surrogate: M5PFHxA	*116 %*	*25-150*
Surrogate: M4PFHpA	*121 %*	*25-150*
Surrogate: M3PFHxS	*127 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*98.6 %*	*25-150*
Surrogate: M6PFDA	*124 %*	*25-150*
Surrogate: M7PFUdA	*117 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*112 %*	*25-150*
Surrogate: M2PFTeDA	*94.3 %*	*10-150*

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*8.07 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*111 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*104 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*78.6 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*84.8 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*95.7 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*61.1 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*110 %*			*25-200*						
	Surrogate: M9PFNA	*101 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*42.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*41.8 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*67.5 %*			*25-150*						
	Surrogate: M3HFPO-DA	*98.8 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*129 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*139 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 01:34	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 22:34	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 22:34	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 22:34	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 22:34	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 22:34	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.79	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 22:34	BCJ

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	35.8	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.94	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	90.5	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*42.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*45.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND	PCB-I	mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A	11/14/2023 08:38	11/15/2023 00:52	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6120**		mg/kg dry	4.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.90**		mg/kg dry	1.38	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**57.4**		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.275	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**38000**	B	mg/kg dry	4.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**12.6**		mg/kg dry	0.459	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.03**		mg/kg dry	0.367	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**21.9**		mg/kg dry	1.84	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**11000**		mg/kg dry	22.9	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**59.1**	B	mg/kg dry	0.459	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**19600**		mg/kg dry	4.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**199**		mg/kg dry	0.459	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**11.8**		mg/kg dry	0.914	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1820**		mg/kg dry	4.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.463	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**122**		mg/kg dry	45.9	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**20.6**		mg/kg dry	0.914	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**30.3**		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.176**		mg/kg dry	0.0330	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.551	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**12.6**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP8 (0-2.5ft) **York Sample ID:** 23K0580-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:45 am	11/08/2023

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.826**		mg/kg dry	0.551	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.8**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**0.028**		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: **23SP8 (10-12.5ft)** **York Sample ID:** **23K0580-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**0.025**		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.059	0.12	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.021**	ICVE	mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **23SP8 (10-12.5ft)** **York Sample ID:** **23K0580-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.015**		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.022**		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**0.0043**	J	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**0.060**		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	**n-Propylbenzene**	**0.0076**		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.0089**		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**0.036**		mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.044**		mg/kg dry	0.0088	0.018	1	EPA 8260D	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*94.9 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.9 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene cyclopropyl isomer**	**0.022**	J	mg/kg dry			1	EPA 8260C	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:			
NA	**Benzene ethylmethyl isomer**	**0.016**	J	mg/kg dry			1	EPA 8260C	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:			
NA	**Benzene methylcyclopropyl i...**	**0.015**	J	mg/kg dry			1	EPA 8260C	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:			
NA	**Butane trimethyl isomer**	**0.019**	J	mg/kg dry			1	EPA 8260C	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:			
NA	**Cyclohexane dimethyl trans ...**	**0.023**	J	mg/kg dry			1	EPA 8260C	11/12/2023 08:00	11/12/2023 20:38	SKF
								Certifications:			

Sample Information

Client Sample ID: **23SP8 (10-12.5ft)** **York Sample ID:** **23K0580-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclohexane trimethyl isomer**	**0.032**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF
NA	**Cyclopentane dimethylmethyl...**	**0.019**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF
NA	**Cyclopentane methyl isomer**	**0.014**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF
NA	**Cyclopentane trimethyl isomer**	**0.021**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF
NA	**Fluoromethylpyridine isomer**	**0.015**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF
NA	**Heptane dimethyl isomer**	**0.013**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF
NA	**Hexane methyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF
NA	**Pentane methyl isomer**	**0.014**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 20:38	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 02:12	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 02:12	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 02:12	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 15:39	11/16/2023 02:12	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 02:12	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 15:39	11/16/2023 02:12	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 15:39	11/16/2023 02:12	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 15:39	11/16/2023 02:12	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 02:12	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 02:12	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 02:12	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 15:39	11/16/2023 02:12	KH

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	**Acenaphthylene**	**0.130**		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.198	0.396	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	**Anthracene**	**0.137**		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
1912-24-9	Atrazine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.198	0.396	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.596**		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
50-32-8	**Benzo(a)pyrene**	**0.586**		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
205-99-2	**Benzo(b)fluoranthene**	**0.736**		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
191-24-2	**Benzo(g,h,i)perylene**	**0.284**		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
207-08-9	**Benzo(k)fluoranthene**	**0.276**		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
65-85-0	Benzoic acid	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.623**		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
53-70-3	**Dibenzo(a,h)anthracene**	**0.0901**	J	mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D	11/14/2023 15:39	11/16/2023 02:12	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH
206-44-0	**Fluoranthene**	**0.874**		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.377**		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.0498**	J	mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.174**		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**1.17**		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*72.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*71.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*64.7 %*	*21-113*

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*71.3 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*89.7 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0190	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/14/2023 08:14	11/15/2023 17:13	KH

Surrogate Recoveries		Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*77.2 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.132	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0631	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.125	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.213	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.205	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.240**		ug/kg dry	0.199	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.225	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.227	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.236	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.194	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.149	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.123	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.176	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.231	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.130	0.476	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.174	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.185	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.227	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.708	0.905	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.899	0.914	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.130	0.952	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.165	0.424	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.230	0.476	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0738	0.476	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.114	0.476	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.187	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.708	0.893	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.724	0.952	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.370	0.900	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.293	0.890	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.207	0.900	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.201	0.231	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.148	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:13	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.755	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.50	5.95	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ

Sample Information

Client Sample ID: **23SP8 (10-12.5ft)** **York Sample ID:** **23K0580-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.79	5.95	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.727	2.38	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.214	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.830	2.38	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.236	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:13	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*125 %*	*25-150*
Surrogate: M5PFHxA	*130 %*	*25-150*
Surrogate: M4PFHpA	*146 %*	*25-150*
Surrogate: M3PFHxS	*163 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*122 %*	*25-150*
Surrogate: M6PFDA	*141 %*	*25-150*
Surrogate: M7PFUdA	*144 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*137 %*	*25-150*
Surrogate: M2PFTeDA	*123 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.7 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*120 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*122 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*111 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*103 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*123 %*	*25-150*
Surrogate: M2-6:2 FTS	*61.6 %*	*25-200*
Surrogate: M2-8:2 FTS	*102 %*	*25-200*
Surrogate: M9PFNA	*141 %*	*25-150*
Surrogate: M2-4:2 FTS	*58.6 %*	*25-150*
Surrogate: d-N-MeFOSA	*53.1 %*	*25-150*
Surrogate: d-N-EtFOSA	*66.2 %*	*25-150*
Surrogate: M3HFPO-DA	*100 %*	*25-150*
Surrogate: d9-N-EtFOSE	*147 %*	*25-150*
Surrogate: d7-N-MeFOSE	*172 %*	*25-150*

Sample Information

Client Sample ID: **23SP8 (10-12.5ft)** **York Sample ID:** **23K0580-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 15:39	11/16/2023 02:12	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-55-9	4,4'-DDE	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/kg dry	38.9	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53494-70-5	Endrin ketone	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	1.94	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 22:56	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.94	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.71	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	98.3	5	EPA 8081B	11/12/2023 08:00	11/13/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0199	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:05	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*71.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12200**		mg/kg dry	5.02	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.51	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**6.30**		mg/kg dry	1.51	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**135**		mg/kg dry	2.51	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.301	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**11600**	B	mg/kg dry	5.02	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**24.4**		mg/kg dry	0.502	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.38**		mg/kg dry	0.401	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**52.5**		mg/kg dry	2.01	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**19900**		mg/kg dry	25.1	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**170**	B	mg/kg dry	0.502	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**6350**		mg/kg dry	5.02	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**299**		mg/kg dry	0.502	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**18.8**		mg/kg dry	1.00	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**3960**		mg/kg dry	5.02	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**5.21**		mg/kg dry	2.51	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.506	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1000**		mg/kg dry	50.2	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.51	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**33.9**		mg/kg dry	1.00	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**58.2**		mg/kg dry	2.50	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP8 (10-12.5ft) **York Sample ID:** 23K0580-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 10:50 am	11/08/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.534**		mg/kg dry	0.0361	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.602	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**24.4**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.602	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.0**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP8 (14-16ft)** **York Sample ID:** **23K0580-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**2.4**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND	QL-02, CCVE, ICVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	5.6	11	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE, IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.33**	IS-HI, J	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**5.3**	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**3.6**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**4.7**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**100**		mg/kg dry	1.4	2.8	500	EPA 8260D	11/13/2023 09:00	11/13/2023 17:04	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**8.9**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**16**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	o-Xylene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**4.2**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**3.0**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**3.6**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI, CCVE	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**4.2**		mg/kg dry	0.83	1.7	100	EPA 8260D	11/12/2023 08:00	11/13/2023 01:13	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*32.9 %*	IS-HI, S-04, S-08		*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*116 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*124 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**4.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Benzene ethyldimethyl isomer**	**6.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Benzene methylpropenyl isomer**	**4.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Cyclohexane dimethyl trans ...**	**6.5**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Cyclopentane dimethyl isomer**	**4.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Cyclopentane dimethyl trans...**	**6.7**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Cyclopentane ethyl isomer**	**4.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Cyclopentane methyl isomer**	**5.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Dimethylhexadiene isomer**	**6.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Heptane methyl isomer**	**10**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Hexane methyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Hexane methylmethylene isomer**	**5.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Indan methyl isomer**	**4.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Octane methyl isomer**	**8.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF
NA	**Pentane methyl isomer**	**5.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/12/2023 08:00	11/13/2023 01:13	SKF

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 09:30	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 09:30	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 09:30	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 09:30	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 09:30	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 09:30	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 09:30	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
91-57-6	**2-Methylnaphthalene**	**1.10**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 09:30	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 09:30	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 09:30	KH

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.108**	J	mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.131**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.218	0.437	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.320**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.218	0.437	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.20**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**2.58**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**2.60**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**2.73**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.803**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	**Carbazole**	**0.0549**	J	mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
218-01-9	**Chrysene**	**1.29**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.449**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	**Dibenzofuran**	**0.162**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.109	0.218	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
206-44-0	**Fluoranthene**	**2.24**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.197**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.51**		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	**Naphthalene**	**1.20**		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.15**		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**2.48**		mg/kg dry	0.0547	0.109	2	EPA 8270D	11/14/2023 08:18	11/15/2023 09:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*52.1 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*56.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*72.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*58.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*65.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.6 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0189	1	EPA 8270D SIM	11/14/2023 08:14	11/15/2023 17:30	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.7 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.144	0.229	1	EPA 1633 Draft 3	11/14/2023 13:41	11/16/2023 14:29	ESJ
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0686	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.136	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.232	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.222	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.216	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.244	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.247	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.256	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.211	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.162	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.133	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.191	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.251	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.141	0.517	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.189	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.200	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.247	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.770	0.983	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.977	0.993	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.141	1.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.180	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.250	0.517	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0802	0.517	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.124	0.517	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.203	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.770	0.970	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.786	1.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.402	0.978	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.318	0.967	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.225	0.978	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.219	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.160	0.248	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 14:29	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.820	1.29	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.71	6.47	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.94	6.47	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.790	2.59	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.233	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.902	2.59	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.256	0.259	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 14:29	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*105 %*	*25-150*
Surrogate: M5PFHxA	*120 %*	*25-150*
Surrogate: M4PFHpA	*137 %*	*25-150*
Surrogate: M3PFHxS	*144 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*	*25-150*
Surrogate: M6PFDA	*123 %*	*25-150*
Surrogate: M7PFUdA	*131 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*129 %*	*25-150*

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2PFTeDA	*97.1 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*7.34 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*113 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*82.2 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*90.2 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*83.3 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*105 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*53.3 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*80.8 %*			*25-200*						
	Surrogate: M9PFNA	*128 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*42.0 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*41.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*68.6 %*			*25-150*						
	Surrogate: M3HFPO-DA	*86.7 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*132 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*151 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.3**	**1.78**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Benzene Isomer RT 5.4**	**5.50**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Benzene Isomer RT 5.5**	**3.16**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Benzene Isomer RT 5.8**	**2.33**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Benzene Isomer RT 6.0**	**4.34**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Diethyl Benzene Isomer RT 5.3**	**4.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown Hydrocarbon RT 3.1**	**2.13**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**UNKNOWN HYDROCARBON RT 3.2**	**2.24**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown Hydrocarbon RT 3.7**	**1.81**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown Hydrocarbon RT 4.0**	**3.78**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown Hydrocarbon RT 4.8**	**2.41**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown Hydrocarbon RT 5.1**	**2.14**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown PAH RT 17.6**	**1.95**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown RT 4.7**	**3.68**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown RT 5.9**	**2.13**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH
NA	**Unknown RT 6.4**	**2.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 09:30	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
309-00-2	Aldrin	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	43.2	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/13/2023 23:18	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.16	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	10.8	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	109	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/13/2023 23:18	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*82.5 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 01:19	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 01:19	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 01:19	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 01:19	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 01:19	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 01:19	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 01:19	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0218	1	EPA 8082A Certifications:	11/14/2023 08:38	11/15/2023 01:19	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.5 %*	*30-140*

Sample Information

Client Sample ID: **23SP8 (14-16ft)** **York Sample ID:** **23K0580-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Metals, Target Analyte **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6720**		mg/kg dry	5.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.74	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**19.6**		mg/kg dry	1.65	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**147**		mg/kg dry	2.74	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.329	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**39500**	B	mg/kg dry	5.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**13.7**		mg/kg dry	0.549	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.88**		mg/kg dry	0.438	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**87.1**		mg/kg dry	2.19	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**20100**		mg/kg dry	27.4	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**207**	B	mg/kg dry	0.549	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**1280**		mg/kg dry	5.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**331**		mg/kg dry	0.549	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**14.0**		mg/kg dry	1.09	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**956**		mg/kg dry	5.49	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**6.80**		mg/kg dry	2.74	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.553	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**563**		mg/kg dry	54.9	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.74	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**23.3**		mg/kg dry	1.09	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP8 (14-16ft) **York Sample ID:** 23K0580-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:00 am	11/08/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**33.0**		mg/kg dry	2.73	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.26**		mg/kg dry	0.0395	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.658	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**13.7**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**8.36**		mg/kg dry	0.658	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**75.9**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **23SP8 (25-27.5ft)** **York Sample ID:** **23K0580-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	**1,2,4-Trimethylbenzene**	**0.0084**		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	**1,3,5-Trimethylbenzene**	**0.0025**	J	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.047	0.094	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.011**	ICVE	mg/kg dry	0.0047	0.0094	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	mg/kg dry	0.0047	0.0094	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.0035**	J	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.0076**		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.011**		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: **23SP8 (25-27.5ft)** **York Sample ID:** **23K0580-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	CCVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.020**		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0047	0.0094	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
179601-23-1	**p- & m- Xylenes**	**0.0095**		mg/kg dry	0.0047	0.0094	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02, CCVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0023	0.0047	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.0095**	J	mg/kg dry	0.0070	0.014	1	EPA 8260D	11/12/2023 08:00	11/12/2023 21:06	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*77.9 %*		*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.6 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*98.3 %*		*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclopentane methyl isomer**	**0.024**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF
NA	**Hexane isomer**	**0.030**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF
NA	**Hexane methyl isomer**	**0.020**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF
NA	**Pentane methyl isomer**	**0.039**	J	mg/kg dry			1	EPA 8260C Certifications:	11/12/2023 08:00	11/12/2023 21:06	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 10:00	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 10:00	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 10:00	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
62-53-3	Aniline	ND		mg/kg dry	0.207	0.414	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.207	0.414	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/15/2023 10:00	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:00	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:00	KH

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.103	0.206	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-73-7	Fluorene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	Phenanthrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-95-2	Phenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	Pyrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*56.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*52.7 %*	*23-114*

Sample Information

Client Sample ID: 23SP8 (25-27.5ft)

York Sample ID: 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*55.2 %*			*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*53.2 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*54.0 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.7 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0185	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/14/2023 08:14	11/15/2023 17:47	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*67.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.139	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0661	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.131	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.223	0.228	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.215	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.208	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.236	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.238	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.247	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.203	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.156	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.129	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.185	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.242	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.136	0.499	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.182	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.193	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.238	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.743	0.948	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.942	0.958	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.136	0.998	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.173	0.444	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.241	0.499	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0774	0.499	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.120	0.499	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.196	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.743	0.936	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.759	0.998	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.388	0.943	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.307	0.933	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.217	0.943	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.211	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.155	0.240	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:18	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.791	1.25	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ

Sample Information

Client Sample ID: **23SP8 (25-27.5ft)** **York Sample ID:** **23K0580-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.62	6.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.87	6.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.763	2.50	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.225	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.870	2.50	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.247	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:18	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*133 %*	*25-150*
Surrogate: M5PFHxA	*125 %*	*25-150*
Surrogate: M4PFHpA	*141 %*	*25-150*
Surrogate: M3PFHxS	*146 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*108 %*	*25-150*
Surrogate: M6PFDA	*104 %*	*25-150*
Surrogate: M7PFUdA	*132 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*111 %*	*25-150*
Surrogate: M2PFTeDA	*106 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*30.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*110 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*109 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*92.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*82.6 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*98.3 %*	*25-150*
Surrogate: M2-6:2 FTS	*46.2 %*	*25-200*
Surrogate: M2-8:2 FTS	*40.4 %*	*25-200*
Surrogate: M9PFNA	*129 %*	*25-150*
Surrogate: M2-4:2 FTS	*49.7 %*	*25-150*
Surrogate: d-N-MeFOSA	*60.0 %*	*25-150*
Surrogate: d-N-EtFOSA	*90.1 %*	*25-150*
Surrogate: M3HFPO-DA	*86.3 %*	*25-150*
Surrogate: d9-N-EtFOSE	*176 %*	*25-150*
Surrogate: d7-N-MeFOSE	*192 %*	*25-150*

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 16.2**	**1.35**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:00	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-55-9	4,4'-DDE	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/kg dry	40.3	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53494-70-5	Endrin ketone	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	2.02	5	EPA 8081B Certifications:	11/12/2023 08:00	11/13/2023 23:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.02	5	EPA 8081B	11/12/2023 08:00	11/13/2023 23:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	10.1	5	EPA 8081B	11/12/2023 08:00	11/13/2023 23:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	102	5	EPA 8081B	11/12/2023 08:00	11/13/2023 23:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*85.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0206	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:33	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12400**		mg/kg dry	5.21	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.60	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: **23SP8 (25-27.5ft)** **York Sample ID:** **23K0580-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**5.22**		mg/kg dry	1.56	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**79.1**		mg/kg dry	2.60	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.313	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1420**	B	mg/kg dry	5.21	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**26.6**		mg/kg dry	0.521	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**8.55**		mg/kg dry	0.416	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**22.3**		mg/kg dry	2.08	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**20600**		mg/kg dry	26.0	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**10.3**	B	mg/kg dry	0.521	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**5360**		mg/kg dry	5.21	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**140**		mg/kg dry	0.521	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**20.1**		mg/kg dry	1.04	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**3130**		mg/kg dry	5.21	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**5.58**		mg/kg dry	2.60	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.525	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	52.1	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.60	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.4**		mg/kg dry	1.04	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**66.4**		mg/kg dry	2.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 14:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP8 (25-27.5ft) **York Sample ID:** 23K0580-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 11:10 am	11/08/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0375	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.625	1	EPA 7196A	11/13/2023 09:15	11/13/2023 18:11	JAMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**26.6**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.625	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.0**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: Trip Blank 11-06-23 **York Sample ID:** 23K0580-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **Trip Blank 11-06-23** **York Sample ID:** **23K0580-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Trip Blank 11-06-23 **York Sample ID:** 23K0580-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Trip Blank 11-06-23 **York Sample ID:** 23K0580-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: Trip Blank 11-06-23 **York Sample ID:** 23K0580-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*			*79-122*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:32	SMA

Sample Information

Client Sample ID: PFAS Field Blank **York Sample ID:** 23K0580-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 12:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.470	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.350	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.710	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.680	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.420	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.820	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.520	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.750	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ

Sample Information

Client Sample ID: PFAS Field Blank

York Sample ID: 23K0580-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 12:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.740	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.690	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.790	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**0.304**	J	ng/L	0.230	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.910	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.06	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.330	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/14/2023 12:11	11/15/2023 20:34	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/14/2023 12:11	11/15/2023 20:34	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/14/2023 12:11	11/15/2023 20:34	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/14/2023 12:11	11/15/2023 20:34	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.760	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.700	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
919005-14-4	ADONA	ND		ng/L	0.530	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.930	1.94	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.860	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/14/2023 12:11	11/15/2023 20:34	ESJ

Sample Information

Client Sample ID: PFAS Field Blank

York Sample ID: 23K0580-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 12:00 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.33	25.0	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.47	25.0	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	11/14/2023 12:11	11/15/2023 20:34	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*55.4 %*	*25-150*
Surrogate: M5PFHxA	*66.9 %*	*25-150*
Surrogate: M4PFHpA	*115 %*	*25-150*
Surrogate: M3PFHxS	*93.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*90.0 %*	*25-150*
Surrogate: M6PFDA	*56.6 %*	*25-150*
Surrogate: M7PFUdA	*44.1 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*40.0 %*	*25-150*
Surrogate: M2PFTeDA	*34.0 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.570 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*39.4 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*11.3 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*50.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*32.1 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*30.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*44.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*23.6 %*	*25-200*
Surrogate: M9PFNA	*62.2 %*	*25-150*
Surrogate: M2-4:2 FTS	*38.5 %*	*25-150*
Surrogate: d-N-MeFOSA	*44.1 %*	*25-150*
Surrogate: d-N-EtFOSA	*56.0 %*	*25-150*
Surrogate: M3HFPO-DA	*75.1 %*	*25-150*

Sample Information

Client Sample ID: PFAS Field Blank **York Sample ID:** 23K0580-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 6, 2023 12:00 am	11/08/2023

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d9-N-EtFOSE	*34.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*44.2 %*			*25-150*						

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.15**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**0.052**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.065	0.13	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.017**	CCVE, ICVE	mg/kg dry	0.0065	0.013	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0065	0.013	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.0055**	J	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.063**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.15**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**0.022**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**0.14**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0
75-09-2	Methylene chloride	ND		mg/kg dry	0.0065	0.013	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**0.013**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**0.065**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.022**		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**0.23**		mg/kg dry	0.0065	0.013	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**0.0037**	J	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	**sec-Butylbenzene**	**0.0055**	J	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0033	0.0065	1	EPA 8260D Certifications:	11/14/2023 14:15	11/14/2023 16:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**0.010**		mg/kg dry	0.0033	0.0065	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0033	0.0065	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0033	0.0065	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0033	0.0065	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.25**		mg/kg dry	0.0098	0.020	1	EPA 8260D	11/14/2023 14:15	11/14/2023 16:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*63.9 %*	S-03, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.4 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethenylethyl isomer**	**0.018**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Benzene ethyldimethyl isomer**	**0.024**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Benzene ethylmethyl isomer**	**0.038**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Cyclobutane methylethyliden...**	**0.028**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Cyclohexane dimethyl isomer**	**0.019**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Cyclopentane dimethyl trans...**	**0.023**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Cyclopentane methyl isomer**	**0.038**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Dimethylhexadiene isomer**	**0.047**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			
NA	**Heptane dimethyl isomer**	**0.022**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 16:07	SS
								Certifications:			

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Heptane methyl isomer**	**0.029**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 16:07	SS
NA	**Hexadiene dimethyl isomer**	**0.047**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 16:07	SS
NA	**Hexane isomer**	**0.021**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 16:07	SS
NA	**Hexane methyl isomer**	**0.026**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 16:07	SS
NA	**indane isomer**	**0.040**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 16:07	SS
NA	**Octane methyl isomer**	**0.032**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 16:07	SS
NA	**Pentane methyl isomer**	**0.028**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 16:07	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 10:29	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 10:29	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 10:29	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 10:29	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 10:29	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 10:29	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 10:29	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 10:29	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 10:29	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 10:29	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 10:29	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 10:29	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 10:29	KH

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.109**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.182	0.365	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.255**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1912-24-9	Atrazine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.182	0.365	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.891**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.890**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**1.06**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.622**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.390**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	**Carbazole**	**0.0750**	J	mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
218-01-9	**Chrysene**	**0.901**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.146**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	**Dibenzofuran**	**0.0459**	J	mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0911	0.182	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH
206-44-0	**Fluoranthene**	**1.79**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.649**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.0692**	J	mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**1.15**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**2.00**		mg/kg dry	0.0456	0.0911	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:29	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*2.64 %*	S-08	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*17.0 %*	S-08	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*36.6 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*32.4 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*0.800 %*	S-08	*19-110*

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*38.1 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0192	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/14/2023 08:14	11/15/2023 18:05	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*67.1 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.120	0.192	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0575	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.186	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.181	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.177	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.136	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.112	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.160	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.210	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.118	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.645	0.824	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.819	0.833	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.118	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.151	0.386	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.209	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0672	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.434	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.645	0.813	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.659	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.337	0.820	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.267	0.811	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.189	0.820	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.183	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.134	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:34	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.687	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.27	5.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.63	5.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.662	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.756	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:34	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*88.0 %*	*25-150*
Surrogate: M5PFHxA	*97.2 %*	*25-150*
Surrogate: M4PFHpA	*113 %*	*25-150*
Surrogate: M3PFHxS	*133 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*98.3 %*	*25-150*
Surrogate: M6PFDA	*112 %*	*25-150*
Surrogate: M7PFUdA	*111 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*99.8 %*	*25-150*
Surrogate: M2PFTeDA	*80.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.81 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*105 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*20.5 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*88.8 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*51.3 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*71.8 %*	*25-150*
Surrogate: M2-6:2 FTS	*37.9 %*	*25-200*
Surrogate: M2-8:2 FTS	*54.1 %*	*25-200*
Surrogate: M9PFNA	*117 %*	*25-150*
Surrogate: M2-4:2 FTS	*31.3 %*	*25-150*
Surrogate: d-N-MeFOSA	*61.2 %*	*25-150*
Surrogate: d-N-EtFOSA	*71.0 %*	*25-150*
Surrogate: M3HFPO-DA	*71.3 %*	*25-150*
Surrogate: d9-N-EtFOSE	*149 %*	*25-150*
Surrogate: d7-N-MeFOSE	*167 %*	*25-150*

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	35.8	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.79	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.95	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	90.6	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*50.1 %*	*30-150*

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*49.3 %*			*30-150*					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	11/14/2023 08:38	11/15/2023 01:46	BCJ
							Certifications:			

Surrogate Recoveries		Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*62.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7590**		mg/kg dry	4.58	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.13**		mg/kg dry	1.37	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**70.3**		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.275	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**55100**	B	mg/kg dry	4.58	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**17.1**		mg/kg dry	0.458	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**4.94**		mg/kg dry	0.366	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**58.4**		mg/kg dry	1.83	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**12800**		mg/kg dry	22.9	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**78.1**	B	mg/kg dry	0.458	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**18900**		mg/kg dry	4.58	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**207**		mg/kg dry	0.458	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**12.4**		mg/kg dry	0.912	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1530**		mg/kg dry	4.58	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.73**		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.462	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**327**		mg/kg dry	45.8	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.29	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**25.0**		mg/kg dry	0.912	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**41.8**		mg/kg dry	2.28	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.249**		mg/kg dry	0.0330	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP10 (0-2.5ft) **York Sample ID:** 23K0580-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 1:15 pm	11/08/2023

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**1.76**		mg/kg dry	0.550	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.3**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.550	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.0**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**0.50**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**0.13**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	IS-LO	mg/kg dry	0.070	0.14	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	**2-Butanone**	**0.061**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
591-78-6	2-Hexanone	ND	ICVE, IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.31**	ICVE, IS-LO	mg/kg dry	0.0070	0.014	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND	IS-LO	mg/kg dry	0.0070	0.014	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	Benzene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-97-5	Bromochloromethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND	IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND	ICVE, IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND	IS-LO, CCVE	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-00-3	Chloroethane	ND	CCVE, IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-66-3	Chloroform	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-87-3	Chloromethane	ND	CCVE, IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-59-2	cis-1,2-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
110-82-7	Cyclohexane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
124-48-1	Dibromochloromethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
74-95-3	Dibromomethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-71-8	Dichlorodifluoromethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
100-41-4	**Ethyl Benzene**	**0.039**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
98-82-8	**Isopropylbenzene**	**0.020**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
79-20-9	Methyl acetate	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:29 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	**Methylcyclohexane**	**0.034**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND	IS-LO	mg/kg dry	0.0070	0.014	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**0.033**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**0.11**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**0.025**	IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.11**	IS-LO	mg/kg dry	0.0070	0.014	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**0.0071**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**0.020**	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND	IS-LO, QL-02	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE, IS-LO	mg/kg dry	0.0035	0.0070	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.14**	IS-LO	mg/kg dry	0.010	0.021	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*125 %*	IS-LO	*77-125*

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: SURR: Toluene-d8*	*86.9 %*	IS-LO		*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*89.5 %*	IS-LO		*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethenyldimethyl isomer**	**0.099**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Benzene ethyldimethyl isomer**	**0.068**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Benzene ethylmethyl isomer**	**0.025**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Benzene pentamethyl isomer**	**0.029**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Benzene tetramethyl isomer**	**0.037**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Cyclohexane dimethyl trans ...**	**0.036**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Cyclopentane dimethyl cis i...**	**0.044**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Decane dimethyl isomer**	**0.038**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Heptane dimethyl isomer**	**0.029**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Heptane methyl isomer**	**0.053**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Hexane methyl isomer**	**0.033**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Indan methyl isomer**	**0.052**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**indane isomer**	**0.073**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Indene dihydromethyl isomer**	**0.055**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Octane isomer**	**0.038**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Pentane dimethyl isomer**	**0.027**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Pentane methyl isomer**	**0.039**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS
NA	**Pentane trimethyl isomer**	**0.025**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:29	SS

Sample Information

Client Sample ID: 23SP10 (12.5-15ft)

York Sample ID: 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:58	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:58	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 10:58	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:58	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 10:58	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 10:58	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:58	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
91-57-6	**2-Methylnaphthalene**	**1.82**		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 10:58	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 10:58	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 10:58	KH

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
62-53-3	Aniline	ND		mg/kg dry	0.206	0.412	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.206	0.412	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	Chrysene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.103	0.205	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
206-44-0	**Fluoranthene**	**0.0649**	J	mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	**Naphthalene**	**3.00**		mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.0731**	J	mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.0748**	J	mg/kg dry	0.0515	0.103	2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*47.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*48.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*55.4 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*49.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*54.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.8 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM	11/14/2023 08:14	11/15/2023 18:22	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.2 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.138	0.220	1	EPA 1633 Draft 3	11/14/2023 13:41	11/16/2023 15:50	ESJ
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0660	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.131	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.223	0.228	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.214	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.208	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.235	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.238	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.247	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.203	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.156	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.128	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.184	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.242	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.136	0.498	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.182	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.193	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.238	0.240	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.741	0.946	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.940	0.956	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.136	0.996	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.173	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.240	0.498	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0772	0.498	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.120	0.498	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.195	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.741	0.934	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.757	0.996	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.387	0.941	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.306	0.931	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.217	0.941	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.210	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.154	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 15:50	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.789	1.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.61	6.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.87	6.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.761	2.49	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.224	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.868	2.49	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.247	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 15:50	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*71.0 %*	*25-150*
Surrogate: M5PFHxA	*103 %*	*25-150*
Surrogate: M4PFHpA	*145 %*	*25-150*
Surrogate: M3PFHxS	*148 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*118 %*	*25-150*
Surrogate: M6PFDA	*153 %*	*25-150*
Surrogate: M7PFUdA	*134 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*134 %*	*25-150*

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M2PFTeDA	*106 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.83 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*126 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*11.6 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*93.6 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*99.3 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*123 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*66.5 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*94.4 %*			*25-200*						
	Surrogate: M9PFNA	*139 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*44.0 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*45.4 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*57.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*72.7 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*139 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*162 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.8**	**1.36**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 5.0**	**5.09**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 5.3**	**1.30**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 5.5**	**2.09**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 5.8 (01)**	**1.15**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 5.8 (02)**	**1.32**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 5.9 (01)**	**0.962**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 5.9 (02)**	**1.02**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH
NA	**Benzene Isomer RT 6.0**	**2.90**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 10:58	KH

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 6.4**	**1.33**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**Diethyl Benzene Isomer RT 5.3**	**2.53**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**Diethyl Benzene Isomer RT 5.4**	**6.21**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**ethyl dimethyl Benzene Isom...**	**4.94**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**methyl methylethyl Benzene ...**	**1.34**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**methyl propyl Benzene Isome... (01)**	**1.93**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**methyl propyl Benzene Isome... (02)**	**1.44**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**Unknown Hydrocarbon RT 4.0**	**1.40**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**Unknown RT 4.7**	**1.86**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			
NA	**Unknown RT 5.1**	**0.992**	J	mg/kg dry			2	EPA 8270D	11/14/2023 08:18	11/15/2023 10:58	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	40.8	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.04	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/14/2023 00:24	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
72-20-8	Endrin	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.04	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	10.2	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	103	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 00:24	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 02:00	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 02:00	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 02:00	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 02:00	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 02:00	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0207	1	EPA 8082A Certifications:	11/14/2023 08:38 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/15/2023 02:00	BCJ

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0207	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:00	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0207	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:00	BCJ
							Certifications:			

Surrogate Recoveries	Result	Acceptance Range
877-09-8 *Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-140*
2051-24-3 *Surrogate: Decachlorobiphenyl*	*78.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12700**		mg/kg dry	5.24	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.62	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.01**		mg/kg dry	1.57	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**116**		mg/kg dry	2.62	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.314	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**25800**	B	mg/kg dry	5.24	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**23.0**		mg/kg dry	0.524	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**12.3**		mg/kg dry	0.419	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**42.4**		mg/kg dry	2.10	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**20600**		mg/kg dry	26.2	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**26.0**	B	mg/kg dry	0.524	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**19400**		mg/kg dry	5.24	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**206**		mg/kg dry	0.524	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**22.4**		mg/kg dry	1.04	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**4770**		mg/kg dry	5.24	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**4.82**		mg/kg dry	2.62	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.528	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	52.4	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.62	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**38.3**		mg/kg dry	1.04	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**56.1**		mg/kg dry	2.61	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.180**		mg/kg dry	0.0377	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.629	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.0**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.629	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP10 (12.5-15ft) **York Sample ID:** 23K0580-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:00 pm	11/08/2023

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**79.5**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005			
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
95-63-6	**1,2,4-Trimethylbenzene**	**0.92**	VOA-E, E	mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C			
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D	11/13/2023 09:00	11/13/2023 12:57	SS
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**0.34**		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.067	0.13	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	ICVE	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.0072**	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND	QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE, IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE, IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE, IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.043**	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.39**		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**0.20**		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**0.54**	VOA-E, E	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**0.27**		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**0.45**		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.066**	QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**0.66**		mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**0.036**		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	**sec-Butylbenzene**	**0.11**		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	Toluene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723	11/13/2023 12:57	SS
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-01-4	Vinyl Chloride	ND	CCVE, IS-HI	mg/kg dry	0.0034	0.0067	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
1330-20-7	**Xylenes, Total**	**0.72**		mg/kg dry	0.010	0.020	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 12:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*22.5 %*	IS-HI, S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*119 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethenylmethyl isomer**	**0.090**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Benzene ethyldimethyl isomer**	**0.10**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Butane tetramethyl isomer**	**0.086**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Cyclohexane dimethyl trans ...**	**0.12**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Cyclohexane ethyl iomer**	**0.096**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Cyclohexane methylpropyl is...**	**0.15**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Cyclopentane ethylidenedime...**	**0.097**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Decanol methyl isomer**	**0.33**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Ethanone cyclohexyl isomer**	**0.12**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Heptane dimethyl isomer**	**0.11**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Heptane heptamethyl isomer**	**0.093**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Heptane trimethyl isomer**	**0.15**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Hexadiene dimethyl isomer**	**0.31**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Nonane methyl isomer**	**0.28**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Octane isomer**	**0.40**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**Octane methyl isomer**	**0.57**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS
NA	**phenylbutene isomer**	**0.086**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 12:57	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 11:28	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 11:28	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 11:28	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 11:28	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 11:28	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 11:28	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 11:28	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 11:28	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 11:28	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 11:28	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 11:28	KH

Sample Information

Client Sample ID: 23SP10 (18-22ft)

York Sample ID: 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.601**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**1.09**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.539**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		mg/kg dry	0.202	0.405	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
120-12-7	**Anthracene**	**3.14**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.202	0.405	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH
56-55-3	**Benzo(a)anthracene**	**10.3**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
50-32-8	**Benzo(a)pyrene**	**11.0**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
205-99-2	**Benzo(b)fluoranthene**	**12.4**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
191-24-2	**Benzo(g,h,i)perylene**	**5.45**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
207-08-9	**Benzo(k)fluoranthene**	**4.63**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
86-74-8	**Carbazole**	**0.403**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
218-01-9	**Chrysene**	**10.3**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
53-70-3	**Dibenzo(a,h)anthracene**	**1.28**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
132-64-9	**Dibenzofuran**	**0.556**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
206-44-0	**Fluoranthene**	**21.0**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**1.54**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**7.58**	CAL-E	mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**1.55**		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**16.3**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0507	0.101	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**18.4**		mg/kg dry	0.507	1.01	20	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 20:35	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*57.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*61.6 %*	*23-114*

Sample Information

Client Sample ID: 23SP10 (18-22ft)

York Sample ID: 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.7 %*			*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.8 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*64.8 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*70.2 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/14/2023 08:14	11/15/2023 18:39	KH

CAS No.	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*73.1 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.137	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0655	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.130	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.221	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.212	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.206	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.233	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.236	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.245	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.201	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.154	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.127	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.183	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.240	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.135	0.494	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.180	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.191	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.236	0.238	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.735	0.939	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.932	0.948	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.135	0.988	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.172	0.440	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.238	0.494	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0766	0.494	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.119	0.494	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.194	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.735	0.926	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.751	0.988	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.384	0.934	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.304	0.924	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
919005-14-4	* ADONA	ND		ug/kg dry	0.215	0.934	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.209	0.240	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.153	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/20/2023 18:56	KT
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.783	1.23	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.59	6.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.85	6.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.755	2.47	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.222	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.861	2.47	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.245	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/20/2023 18:56	KT

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*89.7 %*	*25-150*
Surrogate: M5PFHxA	*103 %*	*25-150*
Surrogate: M4PFHpA	*158 %*	*25-150*
Surrogate: M3PFHxS	*130 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*	*25-150*
Surrogate: M6PFDA	*124 %*	*25-150*
Surrogate: M7PFUdA	*132 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*112 %*	*25-150*
Surrogate: M2PFTeDA	*83.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.23 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*120 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*32.6 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*75.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*72.8 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*91.3 %*	*25-150*
Surrogate: M2-6:2 FTS	*75.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*76.0 %*	*25-200*
Surrogate: M9PFNA	*113 %*	*25-150*
Surrogate: M2-4:2 FTS	*59.2 %*	*25-150*
Surrogate: d-N-MeFOSA	*48.0 %*	*25-150*
Surrogate: d-N-EtFOSA	*45.2 %*	*25-150*
Surrogate: M3HFPO-DA	*106 %*	*25-150*
Surrogate: d9-N-EtFOSE	*59.5 %*	*25-150*
Surrogate: d7-N-MeFOSE	*66.2 %*	*25-150*

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.0**	**2.19**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Benzene Isomer RT 4.8**	**2.77**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Benzene Isomer RT 5.4**	**6.01**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Benzene Isomer RT 5.5**	**1.92**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Benzene Isomer RT 6.0**	**2.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Methyl Propyl Benzene Isome...**	**1.41**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**trimethyl Benzene Isomer RT...**	**8.94**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 10.7 (01)**	**2.20**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 10.7 (02)**	**2.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 10.8**	**1.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 10.9**	**4.19**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 11.6**	**1.54**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 13.0**	**1.69**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 17.3**	**2.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown PAH RT 19.6**	**1.46**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown RT 17.5**	**1.84**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown RT 17.7**	**6.40**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown RT 4.3**	**1.39**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH
NA	**Unknown RT 4.7**	**2.61**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:28	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	40.0	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.00	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	10.0	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	101	5	EPA 8081B	11/12/2023 08:00	11/14/2023 00:46	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*90.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*89.8 %*	*30-150*

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0204	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:41	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8330**		mg/kg dry	5.19	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.87**		mg/kg dry	1.56	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**136**		mg/kg dry	2.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.311	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**22900**	B	mg/kg dry	5.19	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**16.4**		mg/kg dry	0.519	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.45**		mg/kg dry	0.415	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**38.5**		mg/kg dry	2.08	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**13800**		mg/kg dry	25.9	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**269**	B	mg/kg dry	0.519	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4140**		mg/kg dry	5.19	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**334**		mg/kg dry	0.519	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.4**		mg/kg dry	1.03	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2200**		mg/kg dry	5.19	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.90**		mg/kg dry	2.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.523	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**481**		mg/kg dry	51.9	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.59	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**23.9**		mg/kg dry	1.03	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**39.5**		mg/kg dry	2.58	1	EPA 6010D	11/09/2023 21:47	11/15/2023 15:07	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.21**		mg/kg dry	0.0373	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.622	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP10 (18-22ft) **York Sample ID:** 23K0580-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:20 pm	11/08/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.4**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.622	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.3**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	11/14/2023 16:34	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 16:34	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.0057**		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/14/2023 16:34	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.044	0.088	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 16:34	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
67-64-1	**Acetone**	**0.010**	CCVE, ICVE	mg/kg dry	0.0044	0.0088	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/14/2023 16:34	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 16:34	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 16:34	SS

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**0.0061**		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**0.0043**	J	mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.0051**		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D	11/14/2023 09:00	11/14/2023 16:34	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0044	0.0088	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0022	0.0044	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0066	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 16:34	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*90.7 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.6 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 14:15	11/14/2023 16:34	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,PADEP-68-04440	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,PADEP-68-04440	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,PADEP-68-04440	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.210	0.421	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.210	0.421	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	Chrysene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-73-7	Fluorene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-95-2	Phenol	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0527	0.105	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*54.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*54.4 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.5 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*52.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*52.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.1 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0196	1	EPA 8270D SIM Certifications:	11/14/2023 08:14	11/15/2023 18:56 NELAC-NY10854	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*69.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.142	0.226	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 16:22 NELAC-NH2097 ,NJDEP-NY037	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0676	0.255	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 16:22 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ESJ

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.134	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.228	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.219	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.213	0.237	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.241	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.244	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.253	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.208	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.159	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.131	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.189	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.248	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.139	0.510	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.186	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.198	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.244	0.246	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.759	0.970	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.963	0.980	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.139	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.177	0.454	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.246	0.510	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0791	0.510	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.122	0.510	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.200	0.240	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.759	0.957	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.776	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.397	0.965	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.314	0.954	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.222	0.965	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.216	0.248	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.158	0.245	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:22	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.809	1.28	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.68	6.38	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.91	6.38	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.780	2.55	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.230	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.889	2.55	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.253	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:22	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*88.7 %*	*25-150*
Surrogate: M5PFHxA	*109 %*	*25-150*
Surrogate: M4PFHpA	*139 %*	*25-150*
Surrogate: M3PFHxS	*151 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*126 %*	*25-150*
Surrogate: M6PFDA	*131 %*	*25-150*
Surrogate: M7PFUdA	*141 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*125 %*	*25-150*
Surrogate: M2PFTeDA	*107 %*	*10-150*

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.73 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*107 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*13.7 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*97.5 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*101 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*125 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*48.3 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*53.5 %*			*25-200*						
	Surrogate: M9PFNA	*138 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*45.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*59.0 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*69.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*90.2 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*163 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*182 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 11:57	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.13	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 01:08	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	2.13	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 01:08	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	2.13	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 01:08	BCJ
309-00-2	Aldrin	ND		ug/kg dry	2.13	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 01:08	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	2.13	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 01:08	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.13	5	EPA 8081B Certifications:	11/12/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 01:08	BCJ

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	42.6	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.13	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	10.6	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	108	5	EPA 8081B	11/12/2023 08:00	11/14/2023 01:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0213	1	EPA 8082A	11/14/2023 08:38	11/15/2023 02:55	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**11800**		mg/kg dry	5.39	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.69	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.54**		mg/kg dry	1.62	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**63.4**		mg/kg dry	2.69	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.323	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1830**	B	mg/kg dry	5.39	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**29.1**		mg/kg dry	0.540	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.54**		mg/kg dry	0.431	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**23.5**		mg/kg dry	2.16	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**18000**		mg/kg dry	26.9	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**9.91**	B	mg/kg dry	0.540	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**5820**		mg/kg dry	5.40	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**137**		mg/kg dry	0.540	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.3**		mg/kg dry	1.07	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**3170**		mg/kg dry	5.40	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**4.66**		mg/kg dry	2.69	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.543	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**81.9**		mg/kg dry	53.9	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.3**		mg/kg dry	1.07	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**71.1**		mg/kg dry	2.68	1	EPA 6010D	11/13/2023 14:09	11/15/2023 21:58	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0388	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.647	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**29.1**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP10 (25-27.5ft) **York Sample ID:** 23K0580-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 6, 2023 2:30 pm	11/08/2023

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.647	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.3**		%	0.100	1	SM 2540G	11/13/2023 07:42	11/13/2023 13:32	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND	ICVE, QL-02, CCVE	mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.076	0.15	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	ICVE	mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**0.017**	ICVE	mg/kg dry	0.0076	0.015	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
107-02-8	Acrolein	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND	QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D	11/13/2023 09:00	11/13/2023 13:52	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0038	0.0076	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.011	0.023	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 13:52	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP1 (0-2.5ft)

York Sample ID: 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,PADEP-68-04440
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,PADEP-68-04440
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.900**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0901**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.112**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.174	0.347	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.265**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.174	0.347	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.00**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**2.01**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**2.01**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**2.13**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.663**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	**Carbazole**	**0.0444**	J	mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
218-01-9	**Chrysene**	**1.01**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.0451**	J	mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0867	0.173	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
206-44-0	**Fluoranthene**	**1.85**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.159**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.97**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.939**		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D	11/14/2023 08:18	11/15/2023 13:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D	11/14/2023 08:18	11/15/2023 13:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D	11/14/2023 08:18	11/15/2023 13:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D	11/14/2023 08:18	11/15/2023 13:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.916**		mg/kg dry	0.0435	0.0867	2	EPA 8270D	11/14/2023 08:18	11/15/2023 13:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0435	0.0867	2	EPA 8270D	11/14/2023 08:18	11/15/2023 13:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**1.96**		mg/kg dry	0.0435	0.0867	2	EPA 8270D	11/14/2023 08:18	11/15/2023 13:44	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*48.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*52.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*74.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.1 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*87.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*69.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0194	1	EPA 8270D SIM	11/14/2023 08:14	11/15/2023 19:14	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*82.6 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.117	0.187	1	EPA 1633 Draft 3	11/14/2023 13:41	11/16/2023 16:39	ESJ
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0566**	J	ug/kg dry	0.0559	0.211	1	EPA 1633 Draft 3	11/14/2023 13:41	11/16/2023 16:39	ESJ
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.111	0.211	1	EPA 1633 Draft 3	11/14/2023 13:41	11/16/2023 16:39	ESJ
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.189	0.193	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.181	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**2.64**		ug/kg dry	0.176	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.199	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.201	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.209	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.172	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.132	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.109	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.156	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.204	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.115	0.422	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.154	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.163	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.201	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.627	0.801	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.796	0.809	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.115	0.843	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.147	0.375	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.203	0.422	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0653	0.422	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.101	0.422	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.165	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.627	0.791	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.641	0.843	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.328	0.797	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.259	0.788	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.183	0.797	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.178	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.131	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:39	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.668	1.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.21	5.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.58	5.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.644	2.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.190	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.735	2.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.209	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:39	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*83.6 %*	*25-150*
Surrogate: M5PFHxA	*96.6 %*	*25-150*
Surrogate: M4PFHpA	*112 %*	*25-150*
Surrogate: M3PFHxS	*120 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*92.2 %*	*25-150*
Surrogate: M6PFDA	*94.8 %*	*25-150*
Surrogate: M7PFUdA	*92.1 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*74.5 %*	*25-150*
Surrogate: M2PFTeDA	*62.5 %*	*10-150*

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*8.99 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*101 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*100 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*75.1 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*66.6 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*75.6 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*61.9 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*108 %*			*25-200*						
	Surrogate: M9PFNA	*89.6 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*35.5 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*32.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*41.6 %*			*25-150*						
	Surrogate: M3HFPO-DA	*88.0 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*84.4 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*99.7 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.3 (01)**	**1.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Benzene Isomer RT 5.3 (02)**	**3.28**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Benzene Isomer RT 5.4**	**4.15**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Benzene Isomer RT 5.5**	**2.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Benzene Isomer RT 5.9**	**1.84**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Benzene Isomer RT 6.0**	**3.14**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**ethyl dimethyl Benzene Isom...**	**6.98**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Tetramethyl Benzene Isomer ...**	**1.70**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown Hydrocarbon RT 3.1**	**1.31**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**UNKNOWN HYDROCARBON RT 3.2**	**1.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown Hydrocarbon RT 4.0**	**2.75**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown Hydrocarbon RT 4.8**	**1.76**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown Hydrocarbon RT 5.1**	**1.75**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown PAH RT 17.6**	**1.55**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown RT 3.8**	**1.36**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown RT 4.4**	**1.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown RT 4.5 (01)**	**1.52**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown RT 4.5 (02)**	**1.72**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown RT 4.7**	**2.74**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH
NA	**Unknown RT 6.4**	**1.83**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 13:44	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.76	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:19	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.76	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:19	BCJ
50-29-3	**4,4'-DDT**	**1.99**		ug/kg dry	1.76	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 12:19	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.76	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:19	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.76	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:19	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.76	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:19	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.76	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:19	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	35.2	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:19	BCJ

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-86-8	delta-BHC	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	**gamma-Chlordane**	**2.13**		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
76-44-8	Heptachlor	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.76	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.81	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	89.1	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:19	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0178	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:45	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5790**		mg/kg dry	4.46	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.23	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.28**		mg/kg dry	1.34	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**63.1**		mg/kg dry	2.23	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.045	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.268	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**67700**	B	mg/kg dry	4.46	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**11.3**		mg/kg dry	0.447	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**3.92**		mg/kg dry	0.357	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**12.5**		mg/kg dry	1.79	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**9410**		mg/kg dry	22.3	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**15.1**	B	mg/kg dry	0.447	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**5180**		mg/kg dry	4.47	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**160**		mg/kg dry	0.447	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**11.1**		mg/kg dry	0.889	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2010**		mg/kg dry	4.47	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.23	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.450	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**389**		mg/kg dry	44.6	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.23	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**24.9**		mg/kg dry	0.889	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**26.6**		mg/kg dry	2.22	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:01	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0338**		mg/kg dry	0.0321	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.535	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**11.3**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP1 (0-2.5ft) **York Sample ID:** 23K0580-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 10:50 am	11/08/2023

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.535	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**93.4**		%	0.100	1	SM 2540G	11/13/2023 07:48	11/13/2023 14:57	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D	11/13/2023 09:00	11/13/2023 14:19	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.096	0.19	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	ICVE	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.059**	ICVE	mg/kg dry	0.0096	0.019	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0096	0.019	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.0073**	J	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND	QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0096	0.019	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0096	0.019	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0048	0.0096	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.014	0.029	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.8 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*127 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclohexane trimethyl isomer**	**0.19**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Decane methyl isomer**	**0.31**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Dimethylheptene isomer**	**0.26**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Dodecane dimethyl isomer**	**0.19**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Dodecane isomer**	**0.19**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Heptane dimethyl isomer**	**0.22**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Hexane dimethyl isomer**	**0.39**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Hexane ethylmethyl isomer**	**0.18**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Hexane trimethyl isomer**	**0.92**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Octane dimethyl isomer**	**0.17**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Octane ethyl isomer**	**0.37**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Pentane trimethyl isomer**	**0.93**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS
NA	**Tetratetracontane isomer**	**0.17**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 14:19	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 14:42	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 14:42	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 14:42	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 14:42	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 14:42	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 14:42	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 14:42	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 14:42	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 14:42	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 14:42	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 14:42	KH

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.149**		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		mg/kg dry	0.235	0.471	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 14:42	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 14:42	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 14:42	KH
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.235	0.471	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/15/2023 14:42	KH
56-55-3	**Benzo(a)anthracene**	**0.0968**	J	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 14:42	KH
50-32-8	**Benzo(a)pyrene**	**0.118**		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 14:42	KH
205-99-2	**Benzo(b)fluoranthene**	**0.148**		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 14:42	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.103**	J	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 14:42	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 14:42	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 14:42	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 14:42	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
218-01-9	**Chrysene**	**0.0959**	J	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/15/2023 14:42	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 14:42	KH

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	**Di-n-octyl phthalate**	**0.0968**	J	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
122-39-4	* Diphenylamine	ND		mg/kg dry	0.118	0.235	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
206-44-0	**Fluoranthene**	**0.156**		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.114**	J	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.380**		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.0959**	J	mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**0.177**		mg/kg dry	0.0589	0.118	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*49.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*57.9 %*	*23-114*

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.0 %*			*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*58.2 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*51.1 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.3 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0189	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/14/2023 08:14	11/15/2023 19:52	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.159	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0760	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.151	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.257	0.262	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.247	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.378**		ug/kg dry	0.240	0.267	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.271	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.274	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.284	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.234	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.179	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.148	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.212	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.278	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.156	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.209	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.222	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.274	0.277	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.853	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.08	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.156	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.199	0.511	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.277	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0889	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.138	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.225	0.270	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.853	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.872	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.446	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.353	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.250	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.242	0.278	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.178	0.275	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 16:55	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.909	1.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ

Sample Information

Client Sample ID: **23SP1 (10-12.5ft)** **York Sample ID:** **23K0580-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.01	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.15	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.876	2.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.258	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.00	2.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.284	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 16:55	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*100 %*	*25-150*
Surrogate: M5PFHxA	*110 %*	*25-150*
Surrogate: M4PFHpA	*119 %*	*25-150*
Surrogate: M3PFHxS	*129 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*110 %*	*25-150*
Surrogate: M6PFDA	*110 %*	*25-150*
Surrogate: M7PFUdA	*137 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*112 %*	*25-150*
Surrogate: M2PFTeDA	*87.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*24.1 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*112 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*96.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*90.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*85.2 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*103 %*	*25-150*
Surrogate: M2-6:2 FTS	*49.1 %*	*25-200*
Surrogate: M2-8:2 FTS	*64.5 %*	*25-200*
Surrogate: M9PFNA	*107 %*	*25-150*
Surrogate: M2-4:2 FTS	*44.4 %*	*25-150*
Surrogate: d-N-MeFOSA	*63.0 %*	*25-150*
Surrogate: d-N-EtFOSA	*77.6 %*	*25-150*
Surrogate: M3HFPO-DA	*106 %*	*25-150*
Surrogate: d9-N-EtFOSE	*153 %*	*25-150*
Surrogate: d7-N-MeFOSE	*181 %*	*25-150*

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.9**	**0.983**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Benzene Isomer RT 6.0**	**1.02**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Diethyl Benzene Isomer RT 5.3**	**6.50**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Tetramethyl Benzene Isomer ...**	**1.46**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown RT 5.4**	**3.97**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown Hydrocarbon RT 4.4**	**1.30**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown Hydrocarbon RT 4.5 (01)**	**1.43**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown Hydrocarbon RT 4.5 (02)**	**1.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown Hydrocarbon RT 4.7 (01)**	**1.48**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown Hydrocarbon RT 4.7 (02)**	**3.23**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown Hydrocarbon RT 5.2**	**3.60**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown RT 4.5**	**1.24**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown RT 4.9**	**1.45**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown RT 5.1**	**2.61**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown RT 5.3**	**1.20**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH
NA	**Unknown RT 5.5**	**1.82**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 14:42	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.36	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:36	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	2.36	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 12:36	BCJ

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	47.1	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.36	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	11.8	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	119	5	EPA 8081B	11/13/2023 08:00	11/15/2023 12:36	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*94.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP1 (10-12.5ft)** **York Sample ID:** **23K0580-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0238	1	EPA 8082A	11/13/2023 08:00	11/15/2023 23:59	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*79.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9080**		mg/kg dry	6.01	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	3.01	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.88**		mg/kg dry	1.80	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**132**		mg/kg dry	3.00	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.361	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**16000**	B	mg/kg dry	6.01	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**22.4**		mg/kg dry	0.602	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.36**		mg/kg dry	0.480	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**65.4**		mg/kg dry	2.41	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**16600**		mg/kg dry	30.1	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**420**	B	mg/kg dry	0.602	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4780**		mg/kg dry	6.02	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**196**		mg/kg dry	0.602	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.8**		mg/kg dry	1.20	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2090**		mg/kg dry	6.02	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**4.20**		mg/kg dry	3.01	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.606	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**610**		mg/kg dry	60.1	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.01	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**28.8**		mg/kg dry	1.20	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**53.1**		mg/kg dry	2.99	1	EPA 6010D	11/13/2023 14:09	11/15/2023 22:04	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.87**		mg/kg dry	0.0433	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.721	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP1 (10-12.5ft) **York Sample ID:** 23K0580-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:15 am	11/08/2023

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**22.4**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.721	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**69.3**		%	0.100	1	SM 2540G	11/13/2023 07:48	11/13/2023 14:57	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**420**		mg/kg dry	3.1	6.2	500	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 19:04	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND	ICVE, QL-02, CCVE	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**120**		mg/kg dry	3.1	6.2	500	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 19:04	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	12	25	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE, IS-HI	mg/kg dry	1.2	2.5	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	1.2	2.5	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.98**	IS-HI, J	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE, IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE, IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE, IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**4.6**	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE, IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**98**		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**16**		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**270**		mg/kg dry	3.1	6.2	500	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 19:04	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	1.2	2.5	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**22**		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**53**		mg/kg dry	0.62	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 17:29	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	**o-Xylene**	**17**		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**180**		mg/kg dry	1.2	2.5	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**9.6**		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**9.3**		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**10**		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	IS-HI, CCVE	mg/kg dry	0.62	1.2	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**200**		mg/kg dry	1.9	3.7	100	EPA 8260D	11/14/2023 09:00	11/14/2023 17:29	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*10.6 %*	IS-HI, S-03, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*106 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethenylmethyl isomer**	**6.5**	J	mg/kg dry			100	EPA 8260C	11/14/2023 14:16	11/14/2023 17:29	SS
								Certifications:			

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyldimethyl isomer**	**7.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Cyclohexane dimethyl trans...**	**9.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Cyclohexane ethyl isomer**	**8.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Cyclopentane dimethyl cis i...**	**6.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Cyclopentane methyl isomer**	**7.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Heptane dimethyl isomer (01)**	**6.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Heptane dimethyl isomer (02)**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Heptane methyl isomer**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Hexane isomer**	**7.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Hexane methyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Octane isomer**	**30**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Octane methyl isomer**	**19**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**Pentane methyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS
NA	**phenylbutene isomer**	**7.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 14:16	11/14/2023 17:29	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 15:11	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 15:11	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 15:11	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 15:11	KH

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 15:11	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,PADEP-68-04440	11/15/2023 15:11	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 15:11	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
91-57-6	**2-Methylnaphthalene**	**6.41**		mg/kg dry	0.622	1.24	20	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 11:10	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 15:11	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:11	KH

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.333**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.0794**	J	mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.248	0.497	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.386**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.248	0.497	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.40**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**2.37**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**2.77**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**1.89**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**1.05**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:11	KH
86-74-8	**Carbazole**	**0.130**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/15/2023 15:11	KH
218-01-9	**Chrysene**	**1.44**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/15/2023 15:11	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.565**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/15/2023 15:11	KH
132-64-9	**Dibenzofuran**	**0.130**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/15/2023 15:11	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
117-84-0	**Di-n-octyl phthalate**	**0.0913**	J	mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/15/2023 15:11	KH
122-39-4	* Diphenylamine	ND		mg/kg dry	0.124	0.248	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
206-44-0	**Fluoranthene**	**2.08**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/15/2023 15:11	KH
86-73-7	**Fluorene**	**0.311**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:11	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.09**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/15/2023 15:11	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
91-20-3	**Naphthalene**	**11.1**		mg/kg dry	0.622	1.24	20	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/14/2023 08:18	11/16/2023 11:10	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:11	KH

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**1.72**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**2.12**		mg/kg dry	0.0622	0.124	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*43.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*55.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*90.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*68.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.0 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0196	1	EPA 8270D SIM Certifications:	11/14/2023 08:14	11/15/2023 20:09	KH NELAC-NY10854

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*58.8 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.169	0.270	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 17:11	ESJ NELAC-NH2097 ,NJDEP-NY037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0809	0.305	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 17:11	ESJ NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.160	0.305	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 17:11	ESJ NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.273	0.279	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 17:11	ESJ NELAC-NH2097 ,NJDEP-NY037
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.263	0.305	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 17:11	ESJ NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.255	0.284	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:41	11/16/2023 17:11	ESJ NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.289	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.292	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.302	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.249	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.191	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.157	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.226	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.296	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.166	0.611	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.223	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.237	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.292	0.295	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.908	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.15	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.166	1.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.212	0.543	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.295	0.611	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0946	0.611	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.147	0.611	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.240	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.908	1.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.928	1.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.475	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.376	1.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.266	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.258	0.296	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.189	0.293	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:11	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.968	1.53	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.20	7.63	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.29	7.63	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.933	3.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.275	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.06	3.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.302	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:11	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*97.4 %*	*25-150*
Surrogate: M5PFHxA	*119 %*	*25-150*
Surrogate: M4PFHpA	*127 %*	*25-150*
Surrogate: M3PFHxS	*139 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*99.5 %*	*25-150*
Surrogate: M6PFDA	*109 %*	*25-150*
Surrogate: M7PFUdA	*127 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*109 %*	*25-150*
Surrogate: M2PFTeDA	*86.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*102 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*111 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*128 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*83.7 %*	*10-150*

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d3-N-MeFOSAA	*89.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*101 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*84.6 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*114 %*			*25-200*						
	Surrogate: M9PFNA	*127 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*59.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*52.2 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*60.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*108 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*124 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*140 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.0**	**9.79**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Benzene Isomer RT 4.8 (01)**	**8.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Benzene Isomer RT 4.8 (02)**	**8.70**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Benzene Isomer RT 5.3**	**5.58**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Benzene Isomer RT 5.4**	**19.9**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Benzene Isomer RT 5.5**	**8.27**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Benzene Isomer RT 5.9**	**2.95**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Benzene Isomer RT 6.0**	**5.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Diethyl Benzene Isomer RT 5.3**	**6.82**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Ethyl Methyl Benzene Isomer...**	**3.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**methyl propyl Benzene Isome... (01)**	**6.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**methyl propyl Benzene Isome... (02)**	**5.12**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Tetramethyl Benzene Isomer ...**	**3.05**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**trimethyl Benzene Isomer RT...**	**25.3**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Unknown Hydrocarbon RT 3.1**	**2.91**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Unknown RT 4.3**	**4.48**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Unknown RT 4.7**	**7.67**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Unknown RT 5.1**	**3.51**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH
NA	**Unknown RT 6.4**	**3.64**	J	mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:11	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
309-00-2	Aldrin	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	50.2	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 09:56	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ
72-20-8	Endrin	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 09:56	BCJ

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.51	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	12.6	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	127	5	EPA 8081B Certifications:	11/13/2023 08:00	11/16/2023 09:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*115 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0254	1	EPA 8082A Certifications:	11/13/2023 08:00	11/16/2023 00:12	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*85.5 %*	*30-140*

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**4790**		mg/kg dry	6.39	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	3.19	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**38.4**		mg/kg dry	1.92	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**128**		mg/kg dry	3.19	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	**Beryllium**	**0.090**		mg/kg dry	0.064	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/kg dry	0.383	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**5870**	B	mg/kg dry	6.39	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**13.0**		mg/kg dry	0.639	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.58**		mg/kg dry	0.510	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**94.2**		mg/kg dry	2.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**23300**		mg/kg dry	31.9	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**323**		mg/kg dry	0.639	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**1220**		mg/kg dry	6.39	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**436**		mg/kg dry	0.639	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**25.2**		mg/kg dry	1.27	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**773**		mg/kg dry	6.39	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**7.84**		mg/kg dry	3.19	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.644	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**473**		mg/kg dry	63.9	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.19	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**21.5**		mg/kg dry	1.27	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**30.8**		mg/kg dry	3.18	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:30	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP1 (12.5-15ft) **York Sample ID:** 23K0580-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:30 am	11/08/2023

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.28**		mg/kg dry	0.0460	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.766	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**13.0**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.766	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**65.2**		%	0.100	1	SM 2540G	11/13/2023 07:48	11/13/2023 14:57	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP1 (22.5-25ft)** **York Sample ID:** **23K0580-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.0067**	J	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	ICVE, QL-02, CCVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.075	0.15	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
591-78-6	2-Hexanone	ND	ICVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 15:14 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: **23SP1 (22.5-25ft)** **York Sample ID:** **23K0580-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**0.011**	J	mg/kg dry	0.0075	0.015	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
107-02-8	Acrolein	ND		mg/kg dry	0.0075	0.015	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND	QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D	11/13/2023 09:00	11/13/2023 15:14	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/13/2023 15:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/13/2023 15:14	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0075	0.015	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/13/2023 15:14	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0075	0.015	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/13/2023 15:14	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/13/2023 15:14	SS
98-06-6	tert-Butylbenzene	ND	QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
108-88-3	Toluene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723	11/13/2023 15:14	SS
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0038	0.0075	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.011	0.023	1	EPA 8260D Certifications:	11/13/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/13/2023 15:14	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*91.2 %*	*77-125*

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.0 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 15:14	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:41	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:41	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:41	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:41	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:41	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:41	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/14/2023 08:18	11/15/2023 15:41	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.103	0.207	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/14/2023 08:18	11/15/2023 15:41	KH

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.103	0.207	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.207	0.414	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND	CCVE	mg/kg dry	0.207	0.414	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65-85-0	Benzoic acid	ND	CCVE	mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
122-39-4	* Diphenylamine	ND		mg/kg dry	0.103	0.207	2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
206-44-0	Fluoranthene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/15/2023 15:41	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
87-86-5	Pentachlorophenol	ND	CCVE	mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
108-95-2	Phenol	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH
129-00-0	Pyrene	ND		mg/kg dry	0.0518	0.103	2	EPA 8270D Certifications:	11/14/2023 08:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/15/2023 15:41	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*44.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*43.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*43.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*43.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*51.9 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*62.9 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP1 (22.5-25ft)** **York Sample ID:** **23K0580-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0194	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/14/2023 08:14	11/15/2023 20:27	KH

Surrogate Recoveries	Result	Acceptance Range
17647-74-4 *Surrogate: 1,4-Dioxane-d8*	*75.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.139	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0664	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.132	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.224	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.215	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.209	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.237	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.239	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.248	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.204	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.157	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.129	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.185	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.243	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.137	0.501	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.183	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.194	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.239	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.745	0.952	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.946	0.962	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.137	1.00	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.174	0.446	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.242	0.501	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0777	0.501	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.120	0.501	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.197	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.745	0.940	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.762	1.00	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.390	0.947	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.308	0.937	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.218	0.947	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.212	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.155	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:41	11/16/2023 17:27	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.794	1.25	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.63	6.26	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.88	6.26	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.766	2.51	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.226	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.873	2.51	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.248	0.251	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:41	11/16/2023 17:27	ESJ

Sample Information

Client Sample ID: **23SP1 (22.5-25ft)** **York Sample ID:** **23K0580-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
	Surrogate: M3PFBS	*118 %*			*25-150*						
	Surrogate: M5PFHxA	*122 %*			*25-150*						
	Surrogate: M4PFHpA	*129 %*			*25-150*						
	Surrogate: M3PFHxS	*142 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*110 %*			*25-150*						
	Surrogate: M6PFDA	*123 %*			*25-150*						
	Surrogate: M7PFUdA	*131 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*111 %*			*25-150*						
	Surrogate: M2PFTeDA	*86.2 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*107 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*103 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*134 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*110 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*85.3 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*117 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*56.6 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*53.0 %*			*25-200*						
	Surrogate: M9PFNA	*107 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*53.3 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*70.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*75.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*125 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*111 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*154 %*			*25-150*						

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/14/2023 08:18	11/15/2023 15:41	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
309-00-2	Aldrin	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	41.7	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 10:13	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
72-20-8	Endrin	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	2.09	5	EPA 8081B Certifications:	11/13/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 10:13	BCJ

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.09	5	EPA 8081B	11/13/2023 08:00	11/16/2023 10:13	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	10.4	5	EPA 8081B	11/13/2023 08:00	11/16/2023 10:13	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	106	5	EPA 8081B	11/13/2023 08:00	11/16/2023 10:13	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*115 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*85.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0211	1	EPA 8082A	11/13/2023 08:00	11/16/2023 00:26	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9380**		mg/kg dry	5.30	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.65	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP1 (22.5-25ft)

York Sample ID: 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**2.98**		mg/kg dry	1.59	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**23.1**		mg/kg dry	2.65	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.318	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**619**	B	mg/kg dry	5.30	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**14.1**		mg/kg dry	0.531	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**4.68**		mg/kg dry	0.424	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**7.27**		mg/kg dry	2.12	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**10700**		mg/kg dry	26.5	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**5.84**		mg/kg dry	0.531	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**2410**		mg/kg dry	5.31	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**78.4**		mg/kg dry	0.531	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**11.3**		mg/kg dry	1.06	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**917**		mg/kg dry	5.31	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.47**		mg/kg dry	2.65	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.535	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**89.9**		mg/kg dry	53.0	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.65	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**16.4**		mg/kg dry	1.06	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**35.2**		mg/kg dry	2.64	1	EPA 6010D	11/09/2023 21:43	11/15/2023 17:33	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP1 (22.5-25ft) **York Sample ID:** 23K0580-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Soil	November 7, 2023 11:45 am	11/08/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0382	1	EPA 7473	11/14/2023 16:48	11/14/2023 22:39	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.636	1	EPA 7196A	11/13/2023 14:43	11/13/2023 19:51	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**14.1**		mg/kg	0.500	1	Calculation	11/16/2023 05:51	11/16/2023 10:50	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.636	1	EPA 9014/9010C	11/13/2023 09:26	11/13/2023 15:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**78.6**		%	0.100	1	SM 2540G	11/13/2023 07:48	11/13/2023 14:57	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: Trip Blank 11-07-23 **York Sample ID:** 23K0580-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 7, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **Trip Blank 11-07-23** **York Sample ID:** **23K0580-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 7, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Trip Blank 11-07-23 **York Sample ID:** 23K0580-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 7, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Trip Blank 11-07-23 **York Sample ID:** 23K0580-20

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 7, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: **Trip Blank 11-07-23** **York Sample ID:** **23K0580-20**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0580	220293 100 East 149th Street	Water	November 7, 2023 3:00 pm	11/08/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*			*79-122*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 13:00	SMA

Analytical Batch Summary

Batch ID: BK30664 **Preparation Method:** EPA 3050B **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-17	23SP1 (12.5-15ft)	11/09/23
23K0580-18	23SP1 (22.5-25ft)	11/09/23
BK30664-BLK1	Blank	11/09/23
BK30664-DUP1	Duplicate	11/09/23
BK30664-MS1	Matrix Spike	11/09/23
BK30664-PS1	Post Spike	11/09/23
BK30664-SRM1	Reference	11/09/23

Batch ID: BK30665 **Preparation Method:** EPA 3050B **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/09/23
23K0580-02	23SP9 (10-12.5ft)	11/09/23
23K0580-03	23SP9 (12.5-15ft)	11/09/23
23K0580-04	23SP9 (25-27.5ft)	11/09/23
23K0580-05	23SP8 (0-2.5ft)	11/09/23
23K0580-06	23SP8 (10-12.5ft)	11/09/23
23K0580-07	23SP8 (14-16ft)	11/09/23
23K0580-08	23SP8 (25-27.5ft)	11/09/23
23K0580-11	23SP10 (0-2.5ft)	11/09/23
23K0580-12	23SP10 (12.5-15ft)	11/09/23
23K0580-13	23SP10 (18-22ft)	11/09/23
BK30665-BLK1	Blank	11/09/23
BK30665-DUP1	Duplicate	11/09/23
BK30665-MS1	Matrix Spike	11/09/23
BK30665-PS1	Post Spike	11/09/23
BK30665-SRM1	Reference	11/09/23

Batch ID: BK30713 **Preparation Method:** Analysis Preparation Soil **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/10/23
BK30713-BLK1	Blank	11/10/23
BK30713-DUP1	Duplicate	11/10/23
BK30713-MS1	Matrix Spike	11/10/23
BK30713-MSD1	Matrix Spike Dup	11/10/23
BK30713-SRM1	Reference	11/10/23

Batch ID: BK30762 **Preparation Method:** EPA 3550C **Prepared By:** kaz

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/12/23
23K0580-02	23SP9 (10-12.5ft)	11/12/23
23K0580-03	23SP9 (12.5-15ft)	11/12/23

23K0580-04	23SP9 (25-27.5ft)	11/12/23
23K0580-05	23SP8 (0-2.5ft)	11/12/23
23K0580-06	23SP8 (10-12.5ft)	11/12/23
23K0580-07	23SP8 (14-16ft)	11/12/23
23K0580-08	23SP8 (25-27.5ft)	11/12/23
23K0580-11	23SP10 (0-2.5ft)	11/12/23
23K0580-12	23SP10 (12.5-15ft)	11/12/23
23K0580-13	23SP10 (18-22ft)	11/12/23
23K0580-14	23SP10 (25-27.5ft)	11/12/23
BK30762-BLK1	Blank	11/12/23
BK30762-BS1	LCS	11/12/23
BK30762-MS1	Matrix Spike	11/12/23
BK30762-MSD1	Matrix Spike Dup	11/12/23

Batch ID: BK30763 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-15	23SP1 (0-2.5ft)	11/13/23
23K0580-15	23SP1 (0-2.5ft)	11/13/23
23K0580-16	23SP1 (10-12.5ft)	11/13/23
23K0580-16	23SP1 (10-12.5ft)	11/13/23
23K0580-17	23SP1 (12.5-15ft)	11/13/23
23K0580-17	23SP1 (12.5-15ft)	11/13/23
23K0580-18	23SP1 (22.5-25ft)	11/13/23
23K0580-18	23SP1 (22.5-25ft)	11/13/23
BK30763-BLK1	Blank	11/13/23
BK30763-BLK2	Blank	11/13/23
BK30763-BS1	LCS	11/13/23
BK30763-BS2	LCS	11/13/23
BK30763-MS1	Matrix Spike	11/13/23
BK30763-MS2	Matrix Spike	11/13/23
BK30763-MSD1	Matrix Spike Dup	11/13/23
BK30763-MSD2	Matrix Spike Dup	11/13/23

Batch ID: BK30769 **Preparation Method:** EPA 5030B **Prepared By:** SKF

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/12/23
23K0580-02	23SP9 (10-12.5ft)	11/12/23
23K0580-03	23SP9 (12.5-15ft)	11/12/23
23K0580-05	23SP8 (0-2.5ft)	11/12/23
23K0580-06	23SP8 (10-12.5ft)	11/12/23
23K0580-07	23SP8 (14-16ft)	11/12/23
23K0580-08	23SP8 (25-27.5ft)	11/12/23
BK30769-BLK1	Blank	11/12/23
BK30769-BLK2	Blank	11/12/23
BK30769-BS1	LCS	11/12/23
BK30769-BSD1	LCS Dup	11/12/23

Batch ID: BK30780 **Preparation Method:** % Solids Prep **Prepared By:** sgs

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/13/23
23K0580-02	23SP9 (10-12.5ft)	11/13/23
23K0580-03	23SP9 (12.5-15ft)	11/13/23
23K0580-04	23SP9 (25-27.5ft)	11/13/23
23K0580-05	23SP8 (0-2.5ft)	11/13/23
23K0580-06	23SP8 (10-12.5ft)	11/13/23
23K0580-07	23SP8 (14-16ft)	11/13/23
23K0580-08	23SP8 (25-27.5ft)	11/13/23
23K0580-11	23SP10 (0-2.5ft)	11/13/23
23K0580-12	23SP10 (12.5-15ft)	11/13/23
23K0580-13	23SP10 (18-22ft)	11/13/23
23K0580-14	23SP10 (25-27.5ft)	11/13/23
BK30780-DUP1	Duplicate	11/13/23

Batch ID: BK30781 **Preparation Method:** % Solids Prep **Prepared By:** sgs

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-15	23SP1 (0-2.5ft)	11/13/23
23K0580-16	23SP1 (10-12.5ft)	11/13/23
23K0580-17	23SP1 (12.5-15ft)	11/13/23
23K0580-18	23SP1 (22.5-25ft)	11/13/23
BK30781-DUP1	Duplicate	11/13/23

Batch ID: BK30784 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-04	23SP9 (25-27.5ft)	11/13/23
23K0580-07RE1	23SP8 (14-16ft)	11/13/23
23K0580-12	23SP10 (12.5-15ft)	11/13/23
23K0580-13	23SP10 (18-22ft)	11/13/23
23K0580-15	23SP1 (0-2.5ft)	11/13/23
23K0580-16	23SP1 (10-12.5ft)	11/13/23
23K0580-18	23SP1 (22.5-25ft)	11/13/23
BK30784-BLK1	Blank	11/13/23
BK30784-BLK2	Blank	11/13/23
BK30784-BS1	LCS	11/13/23
BK30784-BSD1	LCS Dup	11/13/23
BK30784-MS1	Matrix Spike	11/13/23
BK30784-MSD1	Matrix Spike Dup	11/13/23

Batch ID: BK30805 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-08	23SP8 (25-27.5ft)	11/13/23
BK30805-BLK1	Blank	11/13/23
BK30805-DUP1	Duplicate	11/13/23
BK30805-MS1	Matrix Spike	11/13/23
BK30805-MSD1	Matrix Spike Dup	11/13/23
BK30805-SRM1	Reference	11/13/23

Batch ID: BK30809 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-02	23SP9 (10-12.5ft)	11/13/23
23K0580-03	23SP9 (12.5-15ft)	11/13/23
23K0580-04	23SP9 (25-27.5ft)	11/13/23
23K0580-05	23SP8 (0-2.5ft)	11/13/23
23K0580-06	23SP8 (10-12.5ft)	11/13/23
23K0580-07	23SP8 (14-16ft)	11/13/23
23K0580-08	23SP8 (25-27.5ft)	11/13/23
23K0580-11	23SP10 (0-2.5ft)	11/13/23
23K0580-12	23SP10 (12.5-15ft)	11/13/23
23K0580-13	23SP10 (18-22ft)	11/13/23
23K0580-14	23SP10 (25-27.5ft)	11/13/23
23K0580-15	23SP1 (0-2.5ft)	11/13/23
23K0580-16	23SP1 (10-12.5ft)	11/13/23
23K0580-17	23SP1 (12.5-15ft)	11/13/23
23K0580-18	23SP1 (22.5-25ft)	11/13/23
BK30809-BLK1	Blank	11/13/23
BK30809-DUP1	Duplicate	11/13/23
BK30809-MS1	Matrix Spike	11/13/23
BK30809-MSD1	Matrix Spike Dup	11/13/23
BK30809-SRM1	Reference	11/13/23

Batch ID: BK30810 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-09	Trip Blank 11-06-23	11/13/23
23K0580-20	Trip Blank 11-07-23	11/13/23
BK30810-BLK1	Blank	11/13/23
BK30810-BS1	LCS	11/13/23
BK30810-BSD1	LCS Dup	11/13/23

Batch ID: BK30822 **Preparation Method:** EPA 3050B **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-14	23SP10 (25-27.5ft)	11/13/23
23K0580-15	23SP1 (0-2.5ft)	11/13/23
23K0580-16	23SP1 (10-12.5ft)	11/13/23
BK30822-BLK1	Blank	11/13/23
BK30822-DUP1	Duplicate	11/13/23
BK30822-MS1	Matrix Spike	11/13/23
BK30822-PS1	Post Spike	11/13/23
BK30822-SRM1	Reference	11/13/23

Batch ID: BK30826 **Preparation Method:** EPA SW846-3060 **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date

23K0580-01	23SP9 (0-2.5ft)	11/13/23
23K0580-02	23SP9 (10-12.5ft)	11/13/23
23K0580-03	23SP9 (12.5-15ft)	11/13/23
23K0580-04	23SP9 (25-27.5ft)	11/13/23
23K0580-05	23SP8 (0-2.5ft)	11/13/23
23K0580-06	23SP8 (10-12.5ft)	11/13/23
23K0580-07	23SP8 (14-16ft)	11/13/23
23K0580-11	23SP10 (0-2.5ft)	11/13/23
23K0580-12	23SP10 (12.5-15ft)	11/13/23
23K0580-13	23SP10 (18-22ft)	11/13/23
23K0580-14	23SP10 (25-27.5ft)	11/13/23
23K0580-15	23SP1 (0-2.5ft)	11/13/23
23K0580-16	23SP1 (10-12.5ft)	11/13/23
23K0580-17	23SP1 (12.5-15ft)	11/13/23
23K0580-18	23SP1 (22.5-25ft)	11/13/23
BK30826-BLK1	Blank	11/13/23
BK30826-DUP1	Duplicate	11/13/23
BK30826-MS1	Matrix Spike	11/13/23
BK30826-MSD1	Matrix Spike Dup	11/13/23
BK30826-SRM1	Reference	11/13/23

Batch ID: BK30847 **Preparation Method:** EPA 3550C **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/14/23
23K0580-02	23SP9 (10-12.5ft)	11/14/23
23K0580-03	23SP9 (12.5-15ft)	11/14/23
23K0580-04	23SP9 (25-27.5ft)	11/14/23
23K0580-05	23SP8 (0-2.5ft)	11/14/23
23K0580-06	23SP8 (10-12.5ft)	11/14/23
23K0580-07	23SP8 (14-16ft)	11/14/23
23K0580-08	23SP8 (25-27.5ft)	11/14/23
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-12	23SP10 (12.5-15ft)	11/14/23
23K0580-13	23SP10 (18-22ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
BK30847-BLK2	Blank	11/14/23
BK30847-BS2	LCS	11/14/23
BK30847-MS2	Matrix Spike	11/14/23
BK30847-MSD2	Matrix Spike Dup	11/14/23

Batch ID: BK30861 **Preparation Method:** EPA 5035A **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-13RE1	23SP10 (18-22ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
23K0580-17	23SP1 (12.5-15ft)	11/14/23
23K0580-17	23SP1 (12.5-15ft)	11/14/23

BK30861-BLK1	Blank	11/14/23
BK30861-BLK2	Blank	11/14/23
BK30861-BS1	LCS	11/14/23
BK30861-BSD1	LCS Dup	11/14/23

Batch ID: BK30878 **Preparation Method:** EPA 3550C **Prepared By:** me

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-03	23SP9 (12.5-15ft)	11/14/23
23K0580-04	23SP9 (25-27.5ft)	11/14/23
23K0580-05	23SP8 (0-2.5ft)	11/14/23
23K0580-06	23SP8 (10-12.5ft)	11/14/23
23K0580-07	23SP8 (14-16ft)	11/14/23
23K0580-08	23SP8 (25-27.5ft)	11/14/23
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-12	23SP10 (12.5-15ft)	11/14/23
23K0580-13	23SP10 (18-22ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
23K0580-15	23SP1 (0-2.5ft)	11/14/23
23K0580-16	23SP1 (10-12.5ft)	11/14/23
23K0580-17	23SP1 (12.5-15ft)	11/14/23
23K0580-18	23SP1 (22.5-25ft)	11/14/23
BK30878-BLK1	Blank	11/14/23
BK30878-BS1	LCS	11/14/23
BK30878-MS1	Matrix Spike	11/14/23
BK30878-MSD1	Matrix Spike Dup	11/14/23

Batch ID: BK30881 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-07	23SP8 (14-16ft)	11/14/23
23K0580-07	23SP8 (14-16ft)	11/14/23
23K0580-08	23SP8 (25-27.5ft)	11/14/23
23K0580-08	23SP8 (25-27.5ft)	11/14/23
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-12	23SP10 (12.5-15ft)	11/14/23
23K0580-12	23SP10 (12.5-15ft)	11/14/23
23K0580-13	23SP10 (18-22ft)	11/14/23
23K0580-13	23SP10 (18-22ft)	11/14/23
23K0580-13RE1	23SP10 (18-22ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
23K0580-15	23SP1 (0-2.5ft)	11/14/23
23K0580-15	23SP1 (0-2.5ft)	11/14/23
23K0580-16	23SP1 (10-12.5ft)	11/14/23
23K0580-16	23SP1 (10-12.5ft)	11/14/23
23K0580-17	23SP1 (12.5-15ft)	11/14/23
23K0580-17	23SP1 (12.5-15ft)	11/14/23
23K0580-17RE1	23SP1 (12.5-15ft)	11/14/23
23K0580-18	23SP1 (22.5-25ft)	11/14/23

23K0580-18	23SP1 (22.5-25ft)	11/14/23
BK30881-BLK1	Blank	11/14/23
BK30881-BLK1	Blank	11/14/23
BK30881-BS1	LCS	11/14/23
BK30881-MS1	Matrix Spike	11/14/23
BK30881-MSD1	Matrix Spike Dup	11/14/23

Batch ID: BK30905 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-10	PFAS Field Blank	11/14/23
BK30905-BLK1	Blank	11/14/23
BK30905-BS1	LCS	11/14/23
BK30905-BS2	LCS	11/14/23
BK30905-MS1	Matrix Spike	11/14/23
BK30905-MSD1	Matrix Spike Dup	11/14/23

Batch ID: BK30911 **Preparation Method:** EPA 1633 Prep **Prepared By:** WJH

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/14/23
23K0580-02	23SP9 (10-12.5ft)	11/14/23
23K0580-03	23SP9 (12.5-15ft)	11/14/23
23K0580-04	23SP9 (25-27.5ft)	11/14/23
23K0580-05	23SP8 (0-2.5ft)	11/14/23
23K0580-06	23SP8 (10-12.5ft)	11/14/23
23K0580-07	23SP8 (14-16ft)	11/14/23
23K0580-08	23SP8 (25-27.5ft)	11/14/23
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-12	23SP10 (12.5-15ft)	11/14/23
23K0580-13	23SP10 (18-22ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
23K0580-15	23SP1 (0-2.5ft)	11/14/23
23K0580-16	23SP1 (10-12.5ft)	11/14/23
23K0580-17	23SP1 (12.5-15ft)	11/14/23
23K0580-18	23SP1 (22.5-25ft)	11/14/23
BK30911-BLK1	Blank	11/14/23
BK30911-BS1	LCS	11/14/23
BK30911-BS2	LCS	11/14/23
BK30911-DUP1	Duplicate	11/14/23

Batch ID: BK30935 **Preparation Method:** EPA 3550C **Prepared By:** AN

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/14/23
23K0580-01	23SP9 (0-2.5ft)	11/14/23
23K0580-01RE1	23SP9 (0-2.5ft)	11/14/23
23K0580-02	23SP9 (10-12.5ft)	11/14/23
23K0580-02	23SP9 (10-12.5ft)	11/14/23
23K0580-03	23SP9 (12.5-15ft)	11/14/23

23K0580-03	23SP9 (12.5-15ft)	11/14/23
23K0580-04	23SP9 (25-27.5ft)	11/14/23
23K0580-04	23SP9 (25-27.5ft)	11/14/23
23K0580-05	23SP8 (0-2.5ft)	11/14/23
23K0580-05	23SP8 (0-2.5ft)	11/14/23
23K0580-06	23SP8 (10-12.5ft)	11/14/23
23K0580-06	23SP8 (10-12.5ft)	11/14/23
BK30935-BLK1	Blank	11/14/23
BK30935-BLK1	Blank	11/14/23
BK30935-BS1	LCS	11/14/23
BK30935-MS1	Matrix Spike	11/14/23
BK30935-MSD1	Matrix Spike Dup	11/14/23

Batch ID: BK30939 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/14/23
23K0580-02	23SP9 (10-12.5ft)	11/14/23
23K0580-03	23SP9 (12.5-15ft)	11/14/23
23K0580-04	23SP9 (25-27.5ft)	11/14/23
23K0580-05	23SP8 (0-2.5ft)	11/14/23
23K0580-06	23SP8 (10-12.5ft)	11/14/23
23K0580-07	23SP8 (14-16ft)	11/14/23
23K0580-08	23SP8 (25-27.5ft)	11/14/23
23K0580-11	23SP10 (0-2.5ft)	11/14/23
23K0580-12	23SP10 (12.5-15ft)	11/14/23
23K0580-13	23SP10 (18-22ft)	11/14/23
23K0580-14	23SP10 (25-27.5ft)	11/14/23
23K0580-15	23SP1 (0-2.5ft)	11/14/23
23K0580-16	23SP1 (10-12.5ft)	11/14/23
23K0580-17	23SP1 (12.5-15ft)	11/14/23
23K0580-18	23SP1 (22.5-25ft)	11/14/23
BK30939-BLK1	Blank	11/14/23
BK30939-DUP1	Duplicate	11/14/23
BK30939-MS1	Matrix Spike	11/14/23
BK30939-SRM1	Reference	11/14/23

Batch ID: BK30956 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-17RE1	23SP1 (12.5-15ft)	11/15/23
BK30956-BLK1	Blank	11/15/23
BK30956-BLK2	Blank	11/15/23
BK30956-BS1	LCS	11/15/23
BK30956-BSD1	LCS Dup	11/15/23

Batch ID: BK30961 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/15/23

23K0580-02	23SP9 (10-12.5ft)	11/15/23
BK30961-BLK1	Blank	11/15/23
BK30961-BS1	LCS	11/15/23
BK30961-MS1	Matrix Spike	11/15/23
BK30961-MS2	Matrix Spike	11/15/23
BK30961-MSD1	Matrix Spike Dup	11/15/23
BK30961-MSD2	Matrix Spike Dup	11/15/23

Batch ID: BK31029 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-01	23SP9 (0-2.5ft)	11/16/23
23K0580-02	23SP9 (10-12.5ft)	11/16/23
23K0580-03	23SP9 (12.5-15ft)	11/16/23
23K0580-04	23SP9 (25-27.5ft)	11/16/23
23K0580-05	23SP8 (0-2.5ft)	11/16/23
23K0580-06	23SP8 (10-12.5ft)	11/16/23
23K0580-07	23SP8 (14-16ft)	11/16/23
23K0580-08	23SP8 (25-27.5ft)	11/16/23
23K0580-11	23SP10 (0-2.5ft)	11/16/23
23K0580-12	23SP10 (12.5-15ft)	11/16/23
23K0580-13	23SP10 (18-22ft)	11/16/23
23K0580-14	23SP10 (25-27.5ft)	11/16/23
23K0580-15	23SP1 (0-2.5ft)	11/16/23
23K0580-16	23SP1 (10-12.5ft)	11/16/23
23K0580-17	23SP1 (12.5-15ft)	11/16/23
23K0580-18	23SP1 (22.5-25ft)	11/16/23

Batch ID: BK31249 **Preparation Method:** EPA 1633 Prep **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23K0580-13RE1	23SP10 (18-22ft)	11/20/23
BK31249-BLK1	Blank	11/20/23
BK31249-BS1	LCS	11/20/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30769 - EPA 5030B											
Blank (BK30769-BLK1)											Prepared & Analyzed: 11/12/2023
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30769 - EPA 5030B											
Blank (BK30769-BLK1)											Prepared & Analyzed: 11/12/2023
Methylcyclohexane	ND	0.0050	mg/kg wet								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.4*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.8*		*"*	*50.0*		*93.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.8*		*"*	*50.0*		*102*	*76-130*				
Blank (BK30769-BLK2)											Prepared & Analyzed: 11/12/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30769 - EPA 5030B											
Blank (BK30769-BLK2)											Prepared & Analyzed: 11/12/2023
Acrolein	ND	1.0	mg/kg wet								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.9*		*ug/L*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.2*		*"*	*50.0*		*92.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.1*		*"*	*50.0*		*100*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30769 - EPA 5030B											
LCS (BK30769-BS1)								Prepared & Analyzed: 11/12/2023			
1,1,1,2-Tetrachloroethane	41		ug/L	50.0		82.8	75-129				
1,1,1-Trichloroethane	46		"	50.0		91.6	71-137				
1,1,2,2-Tetrachloroethane	50		"	50.0		101	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	43		"	50.0		86.0	58-146				
1,1,2-Trichloroethane	48		"	50.0		96.8	83-123				
1,1-Dichloroethane	47		"	50.0		94.1	75-130				
1,1-Dichloroethylene	41		"	50.0		82.6	64-137				
1,2,3-Trichlorobenzene	52		"	50.0		103	81-140				
1,2,3-Trichloropropane	50		"	50.0		101	81-126				
1,2,4-Trichlorobenzene	52		"	50.0		103	80-141				
1,2,4-Trimethylbenzene	47		"	50.0		94.2	84-125				
1,2-Dibromo-3-chloropropane	35		"	50.0		70.0	74-142	Low Bias			
1,2-Dibromoethane	46		"	50.0		91.5	86-123				
1,2-Dichlorobenzene	49		"	50.0		97.8	85-122				
1,2-Dichloroethane	51		"	50.0		103	71-133				
1,2-Dichloropropane	44		"	50.0		88.6	81-122				
1,3,5-Trimethylbenzene	45		"	50.0		90.6	82-126				
1,3-Dichlorobenzene	49		"	50.0		98.9	84-124				
1,4-Dichlorobenzene	49		"	50.0		98.1	84-124				
1,4-Dioxane	410		"	1050		38.6	10-228				
2-Butanone	44		"	50.0		88.3	58-147				
2-Hexanone	37		"	50.0		74.7	70-139				
4-Methyl-2-pentanone	31		"	50.0		61.7	72-132	Low Bias			
Acetone	25		"	50.0		50.9	36-155				
Acrolein	47		"	50.0		94.1	10-238				
Acrylonitrile	53		"	50.0		106	66-141				
Benzene	50		"	50.0		101	77-127				
Bromochloromethane	50		"	50.0		99.3	74-129				
Bromodichloromethane	41		"	50.0		82.5	81-124				
Bromoform	43		"	50.0		86.4	80-136				
Bromomethane	42		"	50.0		83.4	32-177				
Carbon disulfide	47		"	50.0		94.4	10-136				
Carbon tetrachloride	46		"	50.0		92.5	66-143				
Chlorobenzene	50		"	50.0		99.8	86-120				
Chloroethane	40		"	50.0		80.3	51-142				
Chloroform	51		"	50.0		102	76-131				
Chloromethane	41		"	50.0		82.8	49-132				
cis-1,2-Dichloroethylene	48		"	50.0		96.4	74-132				
cis-1,3-Dichloropropylene	39		"	50.0		77.5	81-129	Low Bias			
Cyclohexane	51		"	50.0		102	70-130				
Dibromochloromethane	43		"	50.0		86.5	10-200				
Dibromomethane	47		"	50.0		94.2	83-124				
Dichlorodifluoromethane	60		"	50.0		121	28-158				
Ethyl Benzene	46		"	50.0		92.2	84-125				
Hexachlorobutadiene	50		"	50.0		101	83-133				
Isopropylbenzene	47		"	50.0		94.5	81-127				
Methyl acetate	48		"	50.0		96.0	41-143				
Methyl tert-butyl ether (MTBE)	40		"	50.0		79.0	74-131				
Methylcyclohexane	40		"	50.0		79.9	70-130				
Methylene chloride	58		"	50.0		117	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30769 - EPA 5030B											
LCS (BK30769-BS1)								Prepared & Analyzed: 11/12/2023			
n-Butylbenzene	45		ug/L	50.0		89.7	80-130				
n-Propylbenzene	46		"	50.0		92.3	74-136				
o-Xylene	42		"	50.0		84.5	83-123				
p- & m- Xylenes	92		"	100		92.4	82-128				
p-Isopropyltoluene	47		"	50.0		93.4	85-125				
sec-Butylbenzene	46		"	50.0		92.5	83-125				
Styrene	42		"	50.0		83.7	86-126	Low Bias			
tert-Butyl alcohol (TBA)	180		"	250		72.9	70-130				
tert-Butylbenzene	43		"	50.0		85.4	80-127				
Tetrachloroethylene	37		"	50.0		74.0	80-129	Low Bias			
Toluene	46		"	50.0		91.1	85-121				
trans-1,2-Dichloroethylene	48		"	50.0		96.7	72-132				
trans-1,3-Dichloropropylene	37		"	50.0		73.8	78-132	Low Bias			
trans-1,4-dichloro-2-butene	47		"	50.0		94.4	75-135				
Trichloroethylene	44		"	50.0		88.1	84-123				
Trichlorofluoromethane	46		"	50.0		91.6	62-140				
Vinyl Chloride	41		"	50.0		81.5	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.3*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.5*		*"*	*50.0*		*93.0*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.0*		*"*	*50.0*		*97.9*	*76-130*				
LCS Dup (BK30769-BSD1)								Prepared & Analyzed: 11/12/2023			
1,1,1,2-Tetrachloroethane	42		ug/L	50.0		84.8	75-129		2.32	30	
1,1,1-Trichloroethane	48		"	50.0		95.0	71-137		3.71	30	
1,1,2,2-Tetrachloroethane	51		"	50.0		103	79-129		2.06	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.7	58-146		5.32	30	
1,1,2-Trichloroethane	50		"	50.0		99.2	83-123		2.43	30	
1,1-Dichloroethane	49		"	50.0		97.7	75-130		3.75	30	
1,1-Dichloroethylene	44		"	50.0		87.3	64-137		5.54	30	
1,2,3-Trichlorobenzene	53		"	50.0		106	81-140		2.37	30	
1,2,3-Trichloropropane	52		"	50.0		104	81-126		3.12	30	
1,2,4-Trichlorobenzene	53		"	50.0		106	80-141		2.52	30	
1,2,4-Trimethylbenzene	48		"	50.0		96.6	84-125		2.54	30	
1,2-Dibromo-3-chloropropane	37		"	50.0		73.8	74-142	Low Bias	5.23	30	
1,2-Dibromoethane	47		"	50.0		94.2	86-123		2.84	30	
1,2-Dichlorobenzene	50		"	50.0		100	85-122		2.23	30	
1,2-Dichloroethane	53		"	50.0		105	71-133		2.10	30	
1,2-Dichloropropane	46		"	50.0		91.6	81-122		3.29	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.4	82-126		3.02	30	
1,3-Dichlorobenzene	51		"	50.0		101	84-124		2.26	30	
1,4-Dichlorobenzene	50		"	50.0		99.5	84-124		1.46	30	
1,4-Dioxane	430		"	1050		40.7	10-228		5.30	30	
2-Butanone	46		"	50.0		92.5	58-147		4.60	30	
2-Hexanone	39		"	50.0		77.6	70-139		3.86	30	
4-Methyl-2-pentanone	32		"	50.0		63.4	72-132	Low Bias	2.68	30	
Acetone	27		"	50.0		53.5	36-155		4.98	30	
Acrolein	48		"	50.0		95.8	10-238		1.85	30	
Acrylonitrile	54		"	50.0		107	66-141		1.69	30	
Benzene	52		"	50.0		104	77-127		3.32	30	
Bromochloromethane	51		"	50.0		102	74-129		2.35	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30769 - EPA 5030B											
LCS Dup (BK30769-BSD1)								Prepared & Analyzed: 11/12/2023			
Bromodichloromethane	43		ug/L	50.0		85.5	81-124		3.52	30	
Bromoform	44		"	50.0		87.3	80-136		0.990	30	
Bromomethane	39		"	50.0		77.7	32-177		7.15	30	
Carbon disulfide	46		"	50.0		92.6	10-136		1.86	30	
Carbon tetrachloride	48		"	50.0		96.2	66-143		3.88	30	
Chlorobenzene	51		"	50.0		102	86-120		2.34	30	
Chloroethane	37		"	50.0		74.6	51-142		7.39	30	
Chloroform	52		"	50.0		105	76-131		2.83	30	
Chloromethane	43		"	50.0		86.2	49-132		4.02	30	
cis-1,2-Dichloroethylene	50		"	50.0		99.3	74-132		2.99	30	
cis-1,3-Dichloropropylene	40		"	50.0		79.7	81-129	Low Bias	2.77	30	
Cyclohexane	53		"	50.0		105	70-130		3.37	30	
Dibromochloromethane	44		"	50.0		88.1	10-200		1.79	30	
Dibromomethane	48		"	50.0		96.7	83-124		2.64	30	
Dichlorodifluoromethane	62		"	50.0		124	28-158		2.79	30	
Ethyl Benzene	47		"	50.0		94.9	84-125		2.82	30	
Hexachlorobutadiene	52		"	50.0		105	83-133		4.07	30	
Isopropylbenzene	49		"	50.0		97.3	81-127		2.96	30	
Methyl acetate	49		"	50.0		99.0	41-143		2.99	30	
Methyl tert-butyl ether (MTBE)	41		"	50.0		82.8	74-131		4.67	30	
Methylcyclohexane	41		"	50.0		82.9	70-130		3.76	30	
Methylene chloride	59		"	50.0		119	57-141		1.61	30	
n-Butylbenzene	46		"	50.0		92.1	80-130		2.55	30	
n-Propylbenzene	47		"	50.0		94.7	74-136		2.54	30	
o-Xylene	44		"	50.0		87.4	83-123		3.35	30	
p- & m- Xylenes	95		"	100		95.2	82-128		3.01	30	
p-Isopropyltoluene	48		"	50.0		95.9	85-125		2.62	30	
sec-Butylbenzene	48		"	50.0		95.2	83-125		2.86	30	
Styrene	43		"	50.0		85.9	86-126	Low Bias	2.57	30	
tert-Butyl alcohol (TBA)	200		"	250		80.0	70-130		9.26	30	
tert-Butylbenzene	44		"	50.0		87.7	80-127		2.68	30	
Tetrachloroethylene	38		"	50.0		76.9	80-129	Low Bias	3.90	30	
Toluene	47		"	50.0		94.4	85-121		3.49	30	
trans-1,2-Dichloroethylene	50		"	50.0		100	72-132		3.66	30	
trans-1,3-Dichloropropylene	38		"	50.0		75.7	78-132	Low Bias	2.49	30	
trans-1,4-dichloro-2-butene	48		"	50.0		95.6	75-135		1.22	30	
Trichloroethylene	45		"	50.0		90.7	84-123		2.95	30	
Trichlorofluoromethane	48		"	50.0		95.7	62-140		4.31	30	
Vinyl Chloride	43		"	50.0		85.2	52-130		4.34	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.2*		*"*	*50.0*		*100*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.6*		*"*	*50.0*		*93.1*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.8*		*"*	*50.0*		*97.6*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
Blank (BK30784-BLK1)											Prepared & Analyzed: 11/13/2023
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
Blank (BK30784-BLK1)									Prepared & Analyzed: 11/13/2023		
Methylene chloride	ND	0.010	mg/kg wet								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.1*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.7*		*"*	*50.0*		*91.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.5*		*"*	*50.0*		*99.0*	*76-130*				
Blank (BK30784-BLK2)									Prepared & Analyzed: 11/13/2023		
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
Blank (BK30784-BLK2)											Prepared & Analyzed: 11/13/2023
Acrylonitrile	ND	0.50	mg/kg wet								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.1*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.7*		*"*	*50.0*		*91.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.8*		*"*	*50.0*		*99.6*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
LCS (BK30784-BS1)								Prepared & Analyzed: 11/13/2023			
1,1,1,2-Tetrachloroethane	39		ug/L	50.0		78.3	75-129				
1,1,1-Trichloroethane	44		"	50.0		88.7	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		96.2	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	58-146				
1,1,2-Trichloroethane	47		"	50.0		93.9	83-123				
1,1-Dichloroethane	45		"	50.0		90.6	75-130				
1,1-Dichloroethylene	58		"	50.0		117	64-137				
1,2,3-Trichlorobenzene	50		"	50.0		100	81-140				
1,2,3-Trichloropropane	49		"	50.0		98.2	81-126				
1,2,4-Trichlorobenzene	49		"	50.0		97.4	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		87.1	84-125				
1,2-Dibromo-3-chloropropane	34		"	50.0		68.6	74-142	Low Bias			
1,2-Dibromoethane	45		"	50.0		89.9	86-123				
1,2-Dichlorobenzene	46		"	50.0		92.3	85-122				
1,2-Dichloroethane	50		"	50.0		101	71-133				
1,2-Dichloropropane	42		"	50.0		84.1	81-122				
1,3,5-Trimethylbenzene	42		"	50.0		83.7	82-126				
1,3-Dichlorobenzene	46		"	50.0		92.0	84-124				
1,4-Dichlorobenzene	46		"	50.0		91.3	84-124				
1,4-Dioxane	400		"	1050		38.4	10-228				
2-Butanone	44		"	50.0		87.8	58-147				
2-Hexanone	37		"	50.0		73.1	70-139				
4-Methyl-2-pentanone	30		"	50.0		60.1	72-132	Low Bias			
Acetone	42		"	50.0		83.5	36-155				
Acrolein	84		"	50.0		168	10-238				
Acrylonitrile	54		"	50.0		108	66-141				
Benzene	49		"	50.0		97.4	77-127				
Bromochloromethane	49		"	50.0		97.2	74-129				
Bromodichloromethane	39		"	50.0		78.1	81-124	Low Bias			
Bromoform	42		"	50.0		83.0	80-136				
Bromomethane	36		"	50.0		72.0	32-177				
Carbon disulfide	44		"	50.0		88.9	10-136				
Carbon tetrachloride	44		"	50.0		87.4	66-143				
Chlorobenzene	47		"	50.0		93.7	86-120				
Chloroethane	35		"	50.0		69.3	51-142				
Chloroform	49		"	50.0		97.9	76-131				
Chloromethane	34		"	50.0		68.2	49-132				
cis-1,2-Dichloroethylene	46		"	50.0		92.6	74-132				
cis-1,3-Dichloropropylene	37		"	50.0		73.7	81-129	Low Bias			
Cyclohexane	48		"	50.0		96.9	70-130				
Dibromochloromethane	41		"	50.0		82.4	10-200				
Dibromomethane	46		"	50.0		91.1	83-124				
Dichlorodifluoromethane	52		"	50.0		105	28-158				
Ethyl Benzene	43		"	50.0		85.9	84-125				
Hexachlorobutadiene	49		"	50.0		97.4	83-133				
Isopropylbenzene	44		"	50.0		87.3	81-127				
Methyl acetate	48		"	50.0		96.0	41-143				
Methyl tert-butyl ether (MTBE)	42		"	50.0		84.1	74-131				
Methylcyclohexane	37		"	50.0		75.0	70-130				
Methylene chloride	46		"	50.0		91.1	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

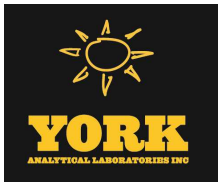
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
LCS (BK30784-BS1)								Prepared & Analyzed: 11/13/2023			
n-Butylbenzene	41		ug/L	50.0		82.5	80-130				
n-Propylbenzene	42		"	50.0		84.4	74-136				
o-Xylene	40		"	50.0		79.1	83-123	Low Bias			
p- & m- Xylenes	86		"	100		85.8	82-128				
p-Isopropyltoluene	43		"	50.0		86.6	85-125				
sec-Butylbenzene	43		"	50.0		86.1	83-125				
Styrene	40		"	50.0		79.3	86-126	Low Bias			
tert-Butyl alcohol (TBA)	190		"	250		76.4	70-130				
tert-Butylbenzene	40		"	50.0		79.7	80-127	Low Bias			
Tetrachloroethylene	35		"	50.0		69.9	80-129	Low Bias			
Toluene	43		"	50.0		85.4	85-121				
trans-1,2-Dichloroethylene	46		"	50.0		92.0	72-132				
trans-1,3-Dichloropropylene	36		"	50.0		71.4	78-132	Low Bias			
trans-1,4-dichloro-2-butene	46		"	50.0		92.0	75-135				
Trichloroethylene	41		"	50.0		82.6	84-123	Low Bias			
Trichlorofluoromethane	38		"	50.0		77.0	62-140				
Vinyl Chloride	34		"	50.0		68.9	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.4*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.8*		*"*	*50.0*		*91.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.4*		*"*	*50.0*		*96.8*	*76-130*				
LCS Dup (BK30784-BSD1)								Prepared & Analyzed: 11/13/2023			
1,1,1,2-Tetrachloroethane	43		ug/L	50.0		85.3	75-129		8.54	30	
1,1,1-Trichloroethane	50		"	50.0		100	71-137		12.1	30	
1,1,2,2-Tetrachloroethane	52		"	50.0		103	79-129		7.25	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	62		"	50.0		123	58-146		11.0	30	
1,1,2-Trichloroethane	49		"	50.0		99.0	83-123		5.29	30	
1,1-Dichloroethane	51		"	50.0		102	75-130		11.6	30	
1,1-Dichloroethylene	65		"	50.0		130	64-137		10.6	30	
1,2,3-Trichlorobenzene	56		"	50.0		111	81-140		10.7	30	
1,2,3-Trichloropropane	52		"	50.0		103	81-126		5.22	30	
1,2,4-Trichlorobenzene	54		"	50.0		108	80-141		10.2	30	
1,2,4-Trimethylbenzene	48		"	50.0		96.2	84-125		9.93	30	
1,2-Dibromo-3-chloropropane	38		"	50.0		75.0	74-142		8.91	30	
1,2-Dibromoethane	47		"	50.0		94.0	86-123		4.46	30	
1,2-Dichlorobenzene	50		"	50.0		101	85-122		9.00	30	
1,2-Dichloroethane	54		"	50.0		108	71-133		6.98	30	
1,2-Dichloropropane	46		"	50.0		92.1	81-122		9.17	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.2	82-126		10.7	30	
1,3-Dichlorobenzene	51		"	50.0		101	84-124		9.42	30	
1,4-Dichlorobenzene	50		"	50.0		100	84-124		9.06	30	
1,4-Dioxane	410		"	1050		39.4	10-228		2.56	30	
2-Butanone	45		"	50.0		90.6	58-147		3.12	30	
2-Hexanone	39		"	50.0		77.3	70-139		5.67	30	
4-Methyl-2-pentanone	31		"	50.0		62.9	72-132	Low Bias	4.55	30	
Acetone	42		"	50.0		83.7	36-155		0.191	30	
Acrolein	45		"	50.0		90.8	10-238		59.7	30	Non-dir.
Acrylonitrile	55		"	50.0		109	66-141		1.23	30	
Benzene	54		"	50.0		108	77-127		10.5	30	
Bromochloromethane	52		"	50.0		104	74-129		6.80	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
LCS Dup (BK30784-BSD1)								Prepared & Analyzed: 11/13/2023			
Bromodichloromethane	42		ug/L	50.0		83.9	81-124		7.16	30	
Bromoform	44		"	50.0		88.1	80-136		5.89	30	
Bromomethane	42		"	50.0		84.2	32-177		15.6	30	
Carbon disulfide	51		"	50.0		102	10-136		13.4	30	
Carbon tetrachloride	50		"	50.0		101	66-143		14.2	30	
Chlorobenzene	52		"	50.0		103	86-120		9.48	30	
Chloroethane	40		"	50.0		80.9	51-142		15.5	30	
Chloroform	54		"	50.0		108	76-131		10.2	30	
Chloromethane	40		"	50.0		80.1	49-132		16.0	30	
cis-1,2-Dichloroethylene	52		"	50.0		103	74-132		10.8	30	
cis-1,3-Dichloropropylene	40		"	50.0		80.0	81-129	Low Bias	8.15	30	
Cyclohexane	55		"	50.0		110	70-130		12.6	30	
Dibromochloromethane	44		"	50.0		87.3	10-200		5.68	30	
Dibromomethane	48		"	50.0		96.3	83-124		5.49	30	
Dichlorodifluoromethane	58		"	50.0		116	28-158		9.80	30	
Ethyl Benzene	48		"	50.0		95.5	84-125		10.6	30	
Hexachlorobutadiene	55		"	50.0		109	83-133		11.5	30	
Isopropylbenzene	49		"	50.0		98.0	81-127		11.6	30	
Methyl acetate	50		"	50.0		99.7	41-143		3.84	30	
Methyl tert-butyl ether (MTBE)	44		"	50.0		88.4	74-131		5.01	30	
Methylcyclohexane	42		"	50.0		84.5	70-130		11.9	30	
Methylene chloride	50		"	50.0		99.3	57-141		8.57	30	
n-Butylbenzene	46		"	50.0		91.3	80-130		10.1	30	
n-Propylbenzene	47		"	50.0		94.2	74-136		10.9	30	
o-Xylene	43		"	50.0		86.9	83-123		9.42	30	
p- & m- Xylenes	95		"	100		95.3	82-128		10.6	30	
p-Isopropyltoluene	48		"	50.0		96.6	85-125		10.9	30	
sec-Butylbenzene	48		"	50.0		96.3	83-125		11.2	30	
Styrene	43		"	50.0		86.7	86-126		8.89	30	
tert-Butyl alcohol (TBA)	210		"	250		82.4	70-130		7.57	30	
tert-Butylbenzene	45		"	50.0		89.1	80-127		11.1	30	
Tetrachloroethylene	39		"	50.0		78.3	80-129	Low Bias	11.3	30	
Toluene	47		"	50.0		94.7	85-121		10.3	30	
trans-1,2-Dichloroethylene	52		"	50.0		104	72-132		11.9	30	
trans-1,3-Dichloropropylene	38		"	50.0		75.5	78-132	Low Bias	5.53	30	
trans-1,4-dichloro-2-butene	49		"	50.0		97.2	75-135		5.54	30	
Trichloroethylene	46		"	50.0		92.3	84-123		11.1	30	
Trichlorofluoromethane	47		"	50.0		94.7	62-140		20.6	30	
Vinyl Chloride	41		"	50.0		81.8	52-130		17.1	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.8*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.8*		*"*	*50.0*		*91.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.7*		*"*	*50.0*		*97.4*	*76-130*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
Matrix Spike (BK30784-MS1)	*Source sample: 23K0592-02 (Matrix Spike)							Prepared & Analyzed: 11/13/2023			
1,1,1,2-Tetrachloroethane	34		ug/L	50.0	0.0	67.0	15-161				
1,1,1-Trichloroethane	41		"	50.0	0.0	81.7	42-145				
1,1,2,2-Tetrachloroethane	40		"	50.0	0.0	80.1	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	33		"	50.0	0.0	65.5	11-160				
1,1,2-Trichloroethane	41		"	50.0	0.0	81.9	44-145				
1,1-Dichloroethane	44		"	50.0	0.0	88.9	46-142				
1,1-Dichloroethylene	36		"	50.0	0.0	72.8	30-153				
1,2,3-Trichlorobenzene	27		"	50.0	0.0	54.4	10-157				
1,2,3-Trichloropropane	41		"	50.0	0.0	82.3	38-155				
1,2,4-Trichlorobenzene	26		"	50.0	0.0	52.9	10-151				
1,2,4-Trimethylbenzene	34		"	50.0	0.0	68.5	10-170				
1,2-Dibromo-3-chloropropane	22		"	50.0	0.0	44.7	36-138				
1,2-Dibromoethane	38		"	50.0	0.0	75.1	40-142				
1,2-Dichlorobenzene	35		"	50.0	0.0	69.4	10-147				
1,2-Dichloroethane	45		"	50.0	0.0	90.6	48-133				
1,2-Dichloropropane	40		"	50.0	0.0	79.2	47-141				
1,3,5-Trimethylbenzene	33		"	50.0	0.0	66.0	10-150				
1,3-Dichlorobenzene	34		"	50.0	0.0	68.2	10-144				
1,4-Dichlorobenzene	33		"	50.0	0.0	67.0	10-160				
1,4-Dioxane	350		"	1050	0.0	33.2	10-191				
2-Butanone	34		"	50.0	0.0	69.0	10-189				
2-Hexanone	26		"	50.0	0.0	51.8	10-181				
4-Methyl-2-pentanone	24		"	50.0	0.0	47.7	10-166				
Acetone	21		"	50.0	2.2	37.6	10-196				
Acrolein	0.0		"	50.0	0.0		10-192	Low Bias			
Acrylonitrile	40		"	50.0	0.0	80.8	13-161				
Benzene	47		"	50.0	0.0	93.3	43-139				
Bromochloromethane	44		"	50.0	0.0	88.4	38-145				
Bromodichloromethane	34		"	50.0	0.0	67.6	38-147				
Bromoform	30		"	50.0	0.0	59.2	29-156				
Bromomethane	36		"	50.0	0.0	72.0	10-166				
Carbon disulfide	35		"	50.0	0.0	70.9	10-131				
Carbon tetrachloride	37		"	50.0	0.0	74.9	35-145				
Chlorobenzene	40		"	50.0	0.0	80.3	21-154				
Chloroethane	38		"	50.0	0.0	75.1	15-160				
Chloroform	46		"	50.0	0.0	92.9	47-142				
Chloromethane	36		"	50.0	0.0	71.2	10-159				
cis-1,2-Dichloroethylene	43		"	50.0	0.0	86.8	42-144				
cis-1,3-Dichloropropylene	32		"	50.0	0.0	63.5	18-159				
Cyclohexane	40		"	50.0	0.0	80.9	70-130				
Dibromochloromethane	33		"	50.0	0.0	65.7	10-179				
Dibromomethane	39		"	50.0	0.0	78.3	47-143				
Dichlorodifluoromethane	35		"	50.0	0.0	69.1	10-145				
Ethyl Benzene	36		"	50.0	0.0	72.4	11-158				
Hexachlorobutadiene	22		"	50.0	0.0	44.0	10-158				
Isopropylbenzene	37		"	50.0	0.0	73.4	10-162				
Methyl acetate	46		"	50.0	0.0	92.5	10-149				
Methyl tert-butyl ether (MTBE)	41		"	50.0	0.0	81.6	42-152				
Methylcyclohexane	26		"	50.0	0.0	52.3	70-130	Low Bias			
Methylene chloride	47		"	50.0	5.4	83.3	28-151				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
Matrix Spike (BK30784-MS1)	*Source sample: 23K0592-02 (Matrix Spike)							Prepared & Analyzed: 11/13/2023			
n-Butylbenzene	26		ug/L	50.0	0.0	51.3	10-162				
n-Propylbenzene	33		"	50.0	0.0	65.6	10-155				
o-Xylene	34		"	50.0	0.0	67.3	10-158				
p- & m- Xylenes	71		"	100	0.0	70.8	10-156				
p-Isopropyltoluene	31		"	50.0	0.0	61.2	10-147				
sec-Butylbenzene	31		"	50.0	0.0	62.5	10-157				
Styrene	33		"	50.0	0.0	65.0	13-171				
tert-Butyl alcohol (TBA)	180		"	250	0.0	72.7	34-179				
tert-Butylbenzene	32		"	50.0	0.0	63.8	10-160				
Tetrachloroethylene	28		"	50.0	0.0	55.3	30-167				
Toluene	38		"	50.0	0.0	76.8	21-160				
trans-1,2-Dichloroethylene	42		"	50.0	0.0	83.5	29-153				
trans-1,3-Dichloropropylene	29		"	50.0	0.0	58.1	18-155				
trans-1,4-dichloro-2-butene	37		"	50.0	0.0	73.9	17-154				
Trichloroethylene	36		"	50.0	0.0	72.9	24-169				
Trichlorofluoromethane	36		"	50.0	0.0	71.7	35-142				
Vinyl Chloride	35		"	50.0	0.0	70.1	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.0*		*"*	*50.0*		*93.9*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.0*		*"*	*50.0*		*92.0*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.9*		*"*	*50.0*		*99.8*	*76-130*				
Matrix Spike Dup (BK30784-MSD1)	*Source sample: 23K0592-02 (Matrix Spike Dup)							Prepared & Analyzed: 11/13/2023			
1,1,1,2-Tetrachloroethane	30		ug/L	50.0	0.0	61.0	15-161		9.47	33	
1,1,1-Trichloroethane	37		"	50.0	0.0	73.3	42-145		10.8	30	
1,1,2,2-Tetrachloroethane	38		"	50.0	0.0	75.1	16-167		6.49	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	29		"	50.0	0.0	57.4	11-160		13.1	31	
1,1,2-Trichloroethane	39		"	50.0	0.0	77.9	44-145		5.11	40	
1,1-Dichloroethane	40		"	50.0	0.0	79.2	46-142		11.4	36	
1,1-Dichloroethylene	32		"	50.0	0.0	64.3	30-153		12.4	31	
1,2,3-Trichlorobenzene	22		"	50.0	0.0	44.0	10-157		21.2	47	
1,2,3-Trichloropropane	39		"	50.0	0.0	77.6	38-155		5.85	48	
1,2,4-Trichlorobenzene	21		"	50.0	0.0	42.4	10-151		22.2	52	
1,2,4-Trimethylbenzene	29		"	50.0	0.0	57.7	10-170		17.0	242	
1,2-Dibromo-3-chloropropane	22		"	50.0	0.0	43.9	36-138		1.63	54	
1,2-Dibromoethane	36		"	50.0	0.0	71.7	40-142		4.58	39	
1,2-Dichlorobenzene	29		"	50.0	0.0	59.0	10-147		16.3	52	
1,2-Dichloroethane	44		"	50.0	0.0	88.3	48-133		2.59	32	
1,2-Dichloropropane	36		"	50.0	0.0	71.7	47-141		9.86	37	
1,3,5-Trimethylbenzene	28		"	50.0	0.0	55.1	10-150		17.9	62	
1,3-Dichlorobenzene	29		"	50.0	0.0	57.2	10-144		17.6	51	
1,4-Dichlorobenzene	28		"	50.0	0.0	56.2	10-160		17.5	52	
1,4-Dioxane	340		"	1050	0.0	32.4	10-191		2.56	196	
2-Butanone	34		"	50.0	0.0	67.1	10-189		2.70	67	
2-Hexanone	24		"	50.0	0.0	47.7	10-181		8.40	60	
4-Methyl-2-pentanone	23		"	50.0	0.0	46.3	10-166		3.02	47	
Acetone	20		"	50.0	2.2	36.2	10-196		3.74	150	
Acrolein	0.0		"	50.0	0.0		10-192	Low Bias		128	
Acrylonitrile	41		"	50.0	0.0	82.2	13-161		1.69	48	
Benzene	41		"	50.0	0.0	83.0	43-139		11.7	64	
Bromochloromethane	41		"	50.0	0.0	82.2	38-145		7.32	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30784 - EPA 5035A											
Matrix Spike Dup (BK30784-MSD1)	*Source sample: 23K0592-02 (Matrix Spike Dup)								Prepared & Analyzed: 11/13/2023		
Bromodichloromethane	32		ug/L	50.0	0.0	63.4	38-147		6.45	37	
Bromoform	29		"	50.0	0.0	57.6	29-156		2.74	51	
Bromomethane	31		"	50.0	0.0	62.9	10-166		13.4	42	
Carbon disulfide	31		"	50.0	0.0	62.6	10-131		12.4	36	
Carbon tetrachloride	33		"	50.0	0.0	66.4	35-145		12.0	31	
Chlorobenzene	36		"	50.0	0.0	71.3	21-154		11.9	32	
Chloroethane	33		"	50.0	0.0	65.2	15-160		14.0	40	
Chloroform	42		"	50.0	0.0	84.0	47-142		10.1	29	
Chloromethane	31		"	50.0	0.0	61.7	10-159		14.3	31	
cis-1,2-Dichloroethylene	39		"	50.0	0.0	77.3	42-144		11.6	30	
cis-1,3-Dichloropropylene	29		"	50.0	0.0	58.3	18-159		8.60	39	
Cyclohexane	35		"	50.0	0.0	69.5	70-130	Low Bias	15.2	30	
Dibromochloromethane	32		"	50.0	0.0	63.1	10-179		4.13	41	
Dibromomethane	37		"	50.0	0.0	73.6	47-143		6.11	41	
Dichlorodifluoromethane	31		"	50.0	0.0	62.9	10-145		9.36	34	
Ethyl Benzene	32		"	50.0	0.0	63.6	11-158		13.0	42	
Hexachlorobutadiene	17		"	50.0	0.0	34.4	10-158		24.4	45	
Isopropylbenzene	31		"	50.0	0.0	61.7	10-162		17.3	57	
Methyl acetate	42		"	50.0	0.0	84.9	10-149		8.52	64	
Methyl tert-butyl ether (MTBE)	39		"	50.0	0.0	78.4	42-152		3.95	47	
Methylcyclohexane	22		"	50.0	0.0	44.5	70-130	Low Bias	16.2	30	
Methylene chloride	44		"	50.0	5.4	78.1	28-151		6.47	49	
n-Butylbenzene	21		"	50.0	0.0	41.4	10-162		21.4	96	
n-Propylbenzene	27		"	50.0	0.0	54.7	10-155		18.2	56	
o-Xylene	30		"	50.0	0.0	59.3	10-158		12.6	51	
p- & m- Xylenes	62		"	100	0.0	61.8	10-156		13.6	47	
p-Isopropyltoluene	25		"	50.0	0.0	50.0	10-147		20.3	60	
sec-Butylbenzene	26		"	50.0	0.0	51.3	10-157		19.7	56	
Styrene	29		"	50.0	0.0	57.3	13-171		12.6	39	
tert-Butyl alcohol (TBA)	190		"	250	0.0	74.5	34-179		2.48	35	
tert-Butylbenzene	26		"	50.0	0.0	52.8	10-160		18.9	79	
Tetrachloroethylene	24		"	50.0	0.0	47.9	30-167		14.3	33	
Toluene	34		"	50.0	0.0	68.1	21-160		11.9	50	
trans-1,2-Dichloroethylene	37		"	50.0	0.0	74.0	29-153		12.1	30	
trans-1,3-Dichloropropylene	27		"	50.0	0.0	54.4	18-155		6.58	30	
trans-1,4-dichloro-2-butene	35		"	50.0	0.0	70.0	17-154		5.37	30	
Trichloroethylene	32		"	50.0	0.0	64.1	24-169		12.8	30	
Trichlorofluoromethane	32		"	50.0	0.0	64.1	35-142		11.2	30	
Vinyl Chloride	30		"	50.0	0.0	60.8	12-160		14.2	35	
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.8*		*"*	*50.0*		*97.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.7*		*"*	*50.0*		*91.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.4*		*"*	*50.0*		*98.8*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30810 - EPA 5030B											
Blank (BK30810-BLK1)											Prepared & Analyzed: 11/13/2023
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30810 - EPA 5030B											
Blank (BK30810-BLK1)											Prepared & Analyzed: 11/13/2023
Methylene chloride	ND	2.0	ug/L								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.7*		*"*	*10.0*		*107*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*79-122*				
LCS (BK30810-BS1)											Prepared & Analyzed: 11/13/2023
1,1,1,2-Tetrachloroethane	9.0		ug/L	10.0		89.6	82-126				
1,1,1-Trichloroethane	10		"	10.0		100	78-136				
1,1,2,2-Tetrachloroethane	10		"	10.0		101	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		100	54-165				
1,1,2-Trichloroethane	9.4		"	10.0		93.8	82-123				
1,1-Dichloroethane	9.5		"	10.0		94.9	82-129				
1,1-Dichloroethylene	9.9		"	10.0		98.7	68-138				
1,2,3-Trichlorobenzene	8.6		"	10.0		85.7	40-130				
1,2,3-Trichloropropane	9.9		"	10.0		98.7	77-128				
1,2,4-Trichlorobenzene	8.7		"	10.0		87.4	65-137				
1,2,4-Trimethylbenzene	9.9		"	10.0		99.2	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		102	45-147				
1,2-Dibromoethane	9.5		"	10.0		95.4	83-124				
1,2-Dichlorobenzene	9.2		"	10.0		92.3	79-123				
1,2-Dichloroethane	11		"	10.0		106	73-132				
1,2-Dichloropropane	9.2		"	10.0		92.2	78-126				
1,3,5-Trimethylbenzene	9.8		"	10.0		98.4	80-131				
1,3-Dichlorobenzene	9.1		"	10.0		91.4	86-130				
1,4-Dichlorobenzene	8.9		"	10.0		89.0	85-130				
1,4-Dioxane	78		"	210		37.0	10-349				
2-Butanone	8.7		"	10.0		87.1	49-152				
2-Hexanone	7.3		"	10.0		73.4	51-146				
4-Methyl-2-pentanone	8.3		"	10.0		83.2	57-145				
Acetone	4.7		"	10.0		47.2	14-150				
Acrolein	8.6		"	10.0		86.3	10-153				
Acrylonitrile	9.2		"	10.0		92.2	51-150				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30810 - EPA 5030B											
LCS (BK30810-BS1)								Prepared & Analyzed: 11/13/2023			
Benzene	10		ug/L	10.0		99.9	85-126				
Bromochloromethane	9.3		"	10.0		92.7	77-128				
Bromodichloromethane	9.8		"	10.0		98.0	79-128				
Bromoform	8.4		"	10.0		83.6	78-133				
Bromomethane	7.3		"	10.0		72.6	43-168				
Carbon disulfide	9.6		"	10.0		96.2	68-146				
Carbon tetrachloride	10		"	10.0		102	77-141				
Chlorobenzene	9.7		"	10.0		97.3	88-120				
Chloroethane	10		"	10.0		103	65-136				
Chloroform	9.8		"	10.0		98.3	82-128				
Chloromethane	9.8		"	10.0		98.4	43-155				
cis-1,2-Dichloroethylene	9.9		"	10.0		99.1	83-129				
cis-1,3-Dichloropropylene	9.3		"	10.0		93.0	80-131				
Cyclohexane	9.3		"	10.0		93.4	63-149				
Dibromochloromethane	9.5		"	10.0		94.9	80-130				
Dibromomethane	9.6		"	10.0		96.5	72-134				
Dichlorodifluoromethane	12		"	10.0		118	44-144				
Ethyl Benzene	10		"	10.0		100	80-131				
Hexachlorobutadiene	8.9		"	10.0		89.1	67-146				
Isopropylbenzene	9.6		"	10.0		96.1	76-140				
Methyl acetate	7.8		"	10.0		77.6	51-139				
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		96.3	76-135				
Methylcyclohexane	9.4		"	10.0		94.0	72-143				
Methylene chloride	9.3		"	10.0		93.2	55-137				
n-Butylbenzene	8.8		"	10.0		87.6	79-132				
n-Propylbenzene	9.6		"	10.0		95.9	78-133				
o-Xylene	9.8		"	10.0		98.1	78-130				
p- & m- Xylenes	20		"	20.0		99.2	77-133				
p-Isopropyltoluene	9.6		"	10.0		95.7	81-136				
sec-Butylbenzene	9.5		"	10.0		95.0	79-137				
Styrene	9.9		"	10.0		99.2	67-132				
tert-Butyl alcohol (TBA)	48		"	50.0		96.8	25-162				
tert-Butylbenzene	9.1		"	10.0		91.3	77-138				
Tetrachloroethylene	4.7		"	10.0		47.4	82-131	Low Bias			
Toluene	10		"	10.0		101	80-127				
trans-1,2-Dichloroethylene	9.7		"	10.0		96.9	80-132				
trans-1,3-Dichloropropylene	9.7		"	10.0		97.1	78-131				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.2	63-141				
Trichloroethylene	9.4		"	10.0		93.8	82-128				
Trichlorofluoromethane	13		"	10.0		128	67-139				
Vinyl Chloride	10		"	10.0		101	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.4*		*"*	*10.0*		*104*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.97*		*"*	*10.0*		*99.7*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30810 - EPA 5030B											
LCS Dup (BK30810-BSD1)								Prepared & Analyzed: 11/13/2023			
1,1,1,2-Tetrachloroethane	9.0		ug/L	10.0		89.7	82-126		0.112	30	
1,1,1-Trichloroethane	9.9		"	10.0		98.9	78-136		1.21	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		103	76-129		1.86	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.8		"	10.0		98.3	54-165		1.81	30	
1,1,2-Trichloroethane	9.4		"	10.0		94.0	82-123		0.213	30	
1,1-Dichloroethane	9.4		"	10.0		93.7	82-129		1.27	30	
1,1-Dichloroethylene	9.7		"	10.0		96.7	68-138		2.05	30	
1,2,3-Trichlorobenzene	8.9		"	10.0		89.1	40-130		3.89	30	
1,2,3-Trichloropropane	10		"	10.0		99.5	77-128		0.807	30	
1,2,4-Trichlorobenzene	8.9		"	10.0		89.2	65-137		2.04	30	
1,2,4-Trimethylbenzene	10		"	10.0		99.8	82-132		0.603	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		106	45-147		4.12	30	
1,2-Dibromoethane	9.7		"	10.0		97.1	83-124		1.77	30	
1,2-Dichlorobenzene	9.3		"	10.0		92.7	79-123		0.432	30	
1,2-Dichloroethane	10		"	10.0		105	73-132		0.666	30	
1,2-Dichloropropane	9.2		"	10.0		91.8	78-126		0.435	30	
1,3,5-Trimethylbenzene	9.8		"	10.0		98.5	80-131		0.102	30	
1,3-Dichlorobenzene	9.1		"	10.0		91.3	86-130		0.109	30	
1,4-Dichlorobenzene	9.0		"	10.0		89.5	85-130		0.560	30	
1,4-Dioxane	83		"	210		39.3	10-349		6.14	30	
2-Butanone	9.2		"	10.0		92.4	49-152		5.91	30	
2-Hexanone	7.5		"	10.0		74.8	51-146		1.89	30	
4-Methyl-2-pentanone	8.4		"	10.0		84.2	57-145		1.19	30	
Acetone	4.9		"	10.0		48.7	14-150		3.13	30	
Acrolein	8.6		"	10.0		86.4	10-153		0.116	30	
Acrylonitrile	9.2		"	10.0		91.9	51-150		0.326	30	
Benzene	10		"	10.0		101	85-126		0.897	30	
Bromochloromethane	9.3		"	10.0		92.6	77-128		0.108	30	
Bromodichloromethane	9.7		"	10.0		97.4	79-128		0.614	30	
Bromoform	8.4		"	10.0		83.9	78-133		0.358	30	
Bromomethane	7.7		"	10.0		76.6	43-168		5.36	30	
Carbon disulfide	9.5		"	10.0		95.0	68-146		1.26	30	
Carbon tetrachloride	10		"	10.0		99.6	77-141		2.09	30	
Chlorobenzene	9.6		"	10.0		95.9	88-120		1.45	30	
Chloroethane	9.8		"	10.0		97.7	65-136		4.99	30	
Chloroform	9.9		"	10.0		99.2	82-128		0.911	30	
Chloromethane	9.4		"	10.0		93.6	43-155		5.00	30	
cis-1,2-Dichloroethylene	9.8		"	10.0		97.9	83-129		1.22	30	
cis-1,3-Dichloropropylene	9.2		"	10.0		92.0	80-131		1.08	30	
Cyclohexane	9.2		"	10.0		91.5	63-149		2.06	30	
Dibromochloromethane	9.5		"	10.0		95.1	80-130		0.211	30	
Dibromomethane	9.6		"	10.0		96.5	72-134		0.00	30	
Dichlorodifluoromethane	11		"	10.0		114	44-144		3.28	30	
Ethyl Benzene	9.9		"	10.0		99.0	80-131		1.50	30	
Hexachlorobutadiene	8.8		"	10.0		88.5	67-146		0.676	30	
Isopropylbenzene	9.6		"	10.0		96.1	76-140		0.00	30	
Methyl acetate	8.0		"	10.0		79.7	51-139		2.67	30	
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		99.1	76-135		2.87	30	
Methylcyclohexane	9.2		"	10.0		92.0	72-143		2.15	30	
Methylene chloride	9.4		"	10.0		93.6	55-137		0.428	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30810 - EPA 5030B											
LCS Dup (BK30810-BSD1)								Prepared & Analyzed: 11/13/2023			
n-Butylbenzene	9.1		ug/L	10.0		91.2	79-132		4.03	30	
n-Propylbenzene	9.5		"	10.0		95.4	78-133		0.523	30	
o-Xylene	9.8		"	10.0		97.6	78-130		0.511	30	
p- & m- Xylenes	20		"	20.0		98.4	77-133		0.709	30	
p-Isopropyltoluene	9.7		"	10.0		97.4	81-136		1.76	30	
sec-Butylbenzene	9.7		"	10.0		96.6	79-137		1.67	30	
Styrene	9.8		"	10.0		98.4	67-132		0.810	30	
tert-Butyl alcohol (TBA)	49		"	50.0		98.8	25-162		2.00	30	
tert-Butylbenzene	9.2		"	10.0		92.4	77-138		1.20	30	
Tetrachloroethylene	4.6		"	10.0		46.1	82-131	Low Bias	2.78	30	
Toluene	9.9		"	10.0		98.7	80-127		2.30	30	
trans-1,2-Dichloroethylene	9.6		"	10.0		96.0	80-132		0.933	30	
trans-1,3-Dichloropropylene	9.7		"	10.0		96.8	78-131		0.309	30	
trans-1,4-dichloro-2-butene	9.9		"	10.0		98.7	63-141		1.53	30	
Trichloroethylene	9.2		"	10.0		91.7	82-128		2.26	30	
Trichlorofluoromethane	12		"	10.0		122	67-139		4.65	30	
Vinyl Chloride	9.7		"	10.0		96.9	58-145		4.14	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.96*		*"*	*10.0*		*99.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
Batch BK30861 - EPA 5035A											
Blank (BK30861-BLK1)								Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
Blank (BK30861-BLK1)											Prepared & Analyzed: 11/14/2023
Benzene	ND	0.0050	mg/kg wet								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.9*		*ug/L*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.9*		*"*	*50.0*		*89.8*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.2*		*"*	*50.0*		*98.4*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
Blank (BK30861-BLK2)											Prepared & Analyzed: 11/14/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

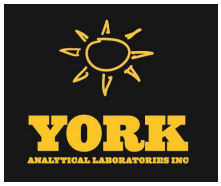
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
Blank (BK30861-BLK2)								Prepared & Analyzed: 11/14/2023			
Methylene chloride	ND	1.0	mg/kg wet								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.1*		*ug/L*	*50.0*		*100*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.3*		*"*	*50.0*		*90.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.6*		*"*	*50.0*		*99.3*	*76-130*				
LCS (BK30861-BS1)								Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	41		ug/L	50.0		82.7	75-129				
1,1,1-Trichloroethane	49		"	50.0		98.6	71-137				
1,1,2,2-Tetrachloroethane	49		"	50.0		97.1	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		111	58-146				
1,1,2-Trichloroethane	48		"	50.0		95.5	83-123				
1,1-Dichloroethane	50		"	50.0		99.2	75-130				
1,1-Dichloroethylene	51		"	50.0		101	64-137				
1,2,3-Trichlorobenzene	51		"	50.0		101	81-140				
1,2,3-Trichloropropane	49		"	50.0		97.3	81-126				
1,2,4-Trichlorobenzene	50		"	50.0		99.5	80-141				
1,2,4-Trimethylbenzene	45		"	50.0		90.8	84-125				
1,2-Dibromo-3-chloropropane	34		"	50.0		68.9	74-142	Low Bias			
1,2-Dibromoethane	46		"	50.0		91.8	86-123				
1,2-Dichlorobenzene	48		"	50.0		95.2	85-122				
1,2-Dichloroethane	54		"	50.0		108	71-133				
1,2-Dichloropropane	44		"	50.0		87.3	81-122				
1,3,5-Trimethylbenzene	44		"	50.0		88.6	82-126				
1,3-Dichlorobenzene	48		"	50.0		96.1	84-124				
1,4-Dichlorobenzene	47		"	50.0		95.0	84-124				
1,4-Dioxane	400		"	1050		37.9	10-228				
2-Butanone	45		"	50.0		90.7	58-147				
2-Hexanone	36		"	50.0		72.1	70-139				
4-Methyl-2-pentanone	30		"	50.0		59.4	72-132	Low Bias			
Acetone	41		"	50.0		81.2	36-155				
Acrolein	45		"	50.0		89.8	10-238				
Acrylonitrile	54		"	50.0		109	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
LCS (BK30861-BS1)								Prepared & Analyzed: 11/14/2023			
Benzene	53		ug/L	50.0		106	77-127				
Bromochloromethane	51		"	50.0		103	74-129				
Bromodichloromethane	41		"	50.0		81.4	81-124				
Bromoform	43		"	50.0		85.4	80-136				
Bromomethane	39		"	50.0		77.4	32-177				
Carbon disulfide	49		"	50.0		97.8	10-136				
Carbon tetrachloride	49		"	50.0		98.7	66-143				
Chlorobenzene	50		"	50.0		99.2	86-120				
Chloroethane	37		"	50.0		73.2	51-142				
Chloroform	54		"	50.0		108	76-131				
Chloromethane	38		"	50.0		76.3	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		101	74-132				
cis-1,3-Dichloropropylene	38		"	50.0		76.3	81-129	Low Bias			
Cyclohexane	53		"	50.0		106	70-130				
Dibromochloromethane	43		"	50.0		85.8	10-200				
Dibromomethane	47		"	50.0		93.9	83-124				
Dichlorodifluoromethane	53		"	50.0		106	28-158				
Ethyl Benzene	46		"	50.0		91.3	84-125				
Hexachlorobutadiene	51		"	50.0		102	83-133				
Isopropylbenzene	46		"	50.0		92.6	81-127				
Methyl acetate	49		"	50.0		98.0	41-143				
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.8	74-131				
Methylcyclohexane	40		"	50.0		80.2	70-130				
Methylene chloride	50		"	50.0		101	57-141				
n-Butylbenzene	43		"	50.0		85.5	80-130				
n-Propylbenzene	45		"	50.0		89.1	74-136				
o-Xylene	42		"	50.0		83.4	83-123				
p- & m- Xylenes	91		"	100		91.3	82-128				
p-Isopropyltoluene	46		"	50.0		91.2	85-125				
sec-Butylbenzene	45		"	50.0		90.7	83-125				
Styrene	42		"	50.0		83.1	86-126	Low Bias			
tert-Butyl alcohol (TBA)	190		"	250		77.7	70-130				
tert-Butylbenzene	42		"	50.0		84.2	80-127				
Tetrachloroethylene	38		"	50.0		75.6	80-129	Low Bias			
Toluene	45		"	50.0		90.8	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		101	72-132				
trans-1,3-Dichloropropylene	36		"	50.0		72.7	78-132	Low Bias			
trans-1,4-dichloro-2-butene	45		"	50.0		90.9	75-135				
Trichloroethylene	44		"	50.0		87.8	84-123				
Trichlorofluoromethane	46		"	50.0		91.3	62-140				
Vinyl Chloride	39		"	50.0		77.6	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.2*		*"*	*50.0*		*90.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.2*		*"*	*50.0*		*96.4*	*76-130*				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
LCS Dup (BK30861-BSD1)								Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	43		ug/L	50.0		85.5	75-129		3.35	30	
1,1,1-Trichloroethane	52		"	50.0		104	71-137		5.58	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		96.3	79-129		0.889	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		95.3	58-146		15.2	30	
1,1,2-Trichloroethane	48		"	50.0		96.5	83-123		1.10	30	
1,1-Dichloroethane	52		"	50.0		104	75-130		4.94	30	
1,1-Dichloroethylene	46		"	50.0		91.0	64-137		10.8	30	
1,2,3-Trichlorobenzene	52		"	50.0		103	81-140		1.84	30	
1,2,3-Trichloropropane	49		"	50.0		98.3	81-126		0.981	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	80-141		2.89	30	
1,2,4-Trimethylbenzene	48		"	50.0		97.0	84-125		6.56	30	
1,2-Dibromo-3-chloropropane	32		"	50.0		63.8	74-142	Low Bias	7.75	30	
1,2-Dibromoethane	46		"	50.0		91.2	86-123		0.612	30	
1,2-Dichlorobenzene	49		"	50.0		98.7	85-122		3.59	30	
1,2-Dichloroethane	54		"	50.0		108	71-133		0.0185	30	
1,2-Dichloropropane	45		"	50.0		90.8	81-122		3.84	30	
1,3,5-Trimethylbenzene	47		"	50.0		94.5	82-126		6.51	30	
1,3-Dichlorobenzene	50		"	50.0		101	84-124		4.61	30	
1,4-Dichlorobenzene	49		"	50.0		98.6	84-124		3.72	30	
1,4-Dioxane	380		"	1050		36.6	10-228		3.63	30	
2-Butanone	45		"	50.0		89.5	58-147		1.33	30	
2-Hexanone	35		"	50.0		70.3	70-139		2.56	30	
4-Methyl-2-pentanone	29		"	50.0		58.0	72-132	Low Bias	2.35	30	
Acetone	26		"	50.0		52.8	36-155		42.3	30	Non-dir.
Acrolein	44		"	50.0		88.4	10-238		1.53	30	
Acrylonitrile	52		"	50.0		105	66-141		3.33	30	
Benzene	55		"	50.0		111	77-127		4.31	30	
Bromochloromethane	52		"	50.0		104	74-129		1.06	30	
Bromodichloromethane	42		"	50.0		83.3	81-124		2.28	30	
Bromoform	42		"	50.0		83.4	80-136		2.27	30	
Bromomethane	42		"	50.0		84.4	32-177		8.75	30	
Carbon disulfide	51		"	50.0		102	10-136		3.69	30	
Carbon tetrachloride	52		"	50.0		105	66-143		6.09	30	
Chlorobenzene	52		"	50.0		103	86-120		4.17	30	
Chloroethane	41		"	50.0		82.2	51-142		11.6	30	
Chloroform	56		"	50.0		111	76-131		3.53	30	
Chloromethane	42		"	50.0		84.0	49-132		9.60	30	
cis-1,2-Dichloroethylene	53		"	50.0		105	74-132		3.76	30	
cis-1,3-Dichloropropylene	39		"	50.0		78.7	81-129	Low Bias	3.05	30	
Cyclohexane	57		"	50.0		113	70-130		6.50	30	
Dibromochloromethane	43		"	50.0		85.8	10-200		0.0233	30	
Dibromomethane	47		"	50.0		93.9	83-124		0.0213	30	
Dichlorodifluoromethane	55		"	50.0		110	28-158		3.91	30	
Ethyl Benzene	48		"	50.0		96.8	84-125		5.85	30	
Hexachlorobutadiene	54		"	50.0		109	83-133		6.58	30	
Isopropylbenzene	50		"	50.0		99.6	81-127		7.35	30	
Methyl acetate	47		"	50.0		94.6	41-143		3.51	30	
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.7	74-131		0.0923	30	
Methylcyclohexane	43		"	50.0		85.9	70-130		6.86	30	
Methylene chloride	52		"	50.0		103	57-141		2.69	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30861 - EPA 5035A											
LCS Dup (BK30861-BSD1)								Prepared & Analyzed: 11/14/2023			
n-Butylbenzene	46		ug/L	50.0		92.1	80-130		7.34	30	
n-Propylbenzene	48		"	50.0		95.8	74-136		7.23	30	
o-Xylene	44		"	50.0		88.1	83-123		5.46	30	
p- & m- Xylenes	97		"	100		96.6	82-128		5.61	30	
p-Isopropyltoluene	49		"	50.0		98.4	85-125		7.57	30	
sec-Butylbenzene	49		"	50.0		98.0	83-125		7.70	30	
Styrene	43		"	50.0		86.4	86-126		3.89	30	
tert-Butyl alcohol (TBA)	190		"	250		77.3	70-130		0.588	30	
tert-Butylbenzene	45		"	50.0		90.9	80-127		7.70	30	
Tetrachloroethylene	40		"	50.0		80.5	80-129		6.30	30	
Toluene	48		"	50.0		96.0	85-121		5.55	30	
trans-1,2-Dichloroethylene	54		"	50.0		107	72-132		6.00	30	
trans-1,3-Dichloropropylene	37		"	50.0		73.5	78-132	Low Bias	1.04	30	
trans-1,4-dichloro-2-butene	45		"	50.0		89.5	75-135		1.53	30	
Trichloroethylene	47		"	50.0		93.5	84-123		6.29	30	
Trichlorofluoromethane	49		"	50.0		97.7	62-140		6.77	30	
Vinyl Chloride	43		"	50.0		85.4	52-130		9.60	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.7*		*"*	*50.0*		*99.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*45.7*		*"*	*50.0*		*91.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.6*		*"*	*50.0*		*97.1*	*76-130*				
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK1)								Prepared & Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK1)											Prepared & Analyzed: 11/15/2023
Benzene	ND	0.0050	mg/kg wet								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.9*		*ug/L*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.5*		*"*	*50.0*		*89.0*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.0*		*"*	*50.0*		*97.9*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK2)											Prepared & Analyzed: 11/15/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
Blank (BK30956-BLK2)								Prepared & Analyzed: 11/15/2023			
Methylene chloride	ND	1.0	mg/kg wet								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.5*		*ug/L*	*50.0*		*103*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.3*		*"*	*50.0*		*88.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.9*		*"*	*50.0*		*97.7*	*76-130*				
LCS (BK30956-BS1)								Prepared & Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	42		ug/L	50.0		83.3	75-129				
1,1,1-Trichloroethane	50		"	50.0		99.5	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		95.7	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	61		"	50.0		122	58-146				
1,1,2-Trichloroethane	48		"	50.0		96.7	83-123				
1,1-Dichloroethane	50		"	50.0		99.2	75-130				
1,1-Dichloroethylene	64		"	50.0		129	64-137				
1,2,3-Trichlorobenzene	51		"	50.0		102	81-140				
1,2,3-Trichloropropane	49		"	50.0		98.1	81-126				
1,2,4-Trichlorobenzene	50		"	50.0		100	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		87.2	84-125				
1,2-Dibromo-3-chloropropane	37		"	50.0		74.7	74-142				
1,2-Dibromoethane	47		"	50.0		93.5	86-123				
1,2-Dichlorobenzene	46		"	50.0		92.8	85-122				
1,2-Dichloroethane	56		"	50.0		111	71-133				
1,2-Dichloropropane	42		"	50.0		84.5	81-122				
1,3,5-Trimethylbenzene	42		"	50.0		84.1	82-126				
1,3-Dichlorobenzene	47		"	50.0		94.1	84-124				
1,4-Dichlorobenzene	46		"	50.0		92.4	84-124				
1,4-Dioxane	420		"	1050		40.3	10-228				
2-Butanone	50		"	50.0		101	58-147				
2-Hexanone	38		"	50.0		76.8	70-139				
4-Methyl-2-pentanone	31		"	50.0		61.0	72-132	Low Bias			
Acetone	51		"	50.0		101	36-155				
Acrolein	130		"	50.0		266	10-238	High Bias			
Acrylonitrile	57		"	50.0		115	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
LCS (BK30956-BS1)								Prepared & Analyzed: 11/15/2023			
Benzene	53		ug/L	50.0		106	77-127				
Bromochloromethane	52		"	50.0		104	74-129				
Bromodichloromethane	41		"	50.0		82.1	81-124				
Bromoform	47		"	50.0		93.8	80-136				
Bromomethane	40		"	50.0		79.4	32-177				
Carbon disulfide	50		"	50.0		101	10-136				
Carbon tetrachloride	50		"	50.0		99.1	66-143				
Chlorobenzene	49		"	50.0		97.3	86-120				
Chloroethane	38		"	50.0		75.1	51-142				
Chloroform	54		"	50.0		108	76-131				
Chloromethane	38		"	50.0		76.5	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		101	74-132				
cis-1,3-Dichloropropylene	39		"	50.0		78.0	81-129	Low Bias			
Cyclohexane	52		"	50.0		105	70-130				
Dibromochloromethane	45		"	50.0		89.3	10-200				
Dibromomethane	47		"	50.0		94.6	83-124				
Dichlorodifluoromethane	62		"	50.0		123	28-158				
Ethyl Benzene	44		"	50.0		88.2	84-125				
Hexachlorobutadiene	49		"	50.0		99.0	83-133				
Isopropylbenzene	44		"	50.0		87.7	81-127				
Methyl acetate	52		"	50.0		104	41-143				
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.9	74-131				
Methylcyclohexane	38		"	50.0		76.8	70-130				
Methylene chloride	48		"	50.0		96.6	57-141				
n-Butylbenzene	40		"	50.0		80.8	80-130				
n-Propylbenzene	42		"	50.0		84.2	74-136				
o-Xylene	41		"	50.0		81.9	83-123	Low Bias			
p- & m- Xylenes	88		"	100		88.4	82-128				
p-Isopropyltoluene	44		"	50.0		87.0	85-125				
sec-Butylbenzene	43		"	50.0		85.9	83-125				
Styrene	41		"	50.0		82.3	86-126	Low Bias			
tert-Butyl alcohol (TBA)	230		"	250		93.1	70-130				
tert-Butylbenzene	40		"	50.0		80.3	80-127				
Tetrachloroethylene	37		"	50.0		74.0	80-129	Low Bias			
Toluene	44		"	50.0		88.0	85-121				
trans-1,2-Dichloroethylene	50		"	50.0		100	72-132				
trans-1,3-Dichloropropylene	38		"	50.0		76.2	78-132	Low Bias			
trans-1,4-dichloro-2-butene	47		"	50.0		93.8	75-135				
Trichloroethylene	43		"	50.0		85.4	84-123				
Trichlorofluoromethane	44		"	50.0		88.7	62-140				
Vinyl Chloride	39		"	50.0		77.6	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.8*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.3*		*"*	*50.0*		*88.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.7*		*"*	*50.0*		*95.3*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
LCS Dup (BK30956-BSD1)								Prepared & Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	42		ug/L	50.0		84.5	75-129		1.36	30	
1,1,1-Trichloroethane	51		"	50.0		103	71-137		3.11	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		96.4	79-129		0.750	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46		"	50.0		91.2	58-146		29.0	30	
1,1,2-Trichloroethane	48		"	50.0		96.5	83-123		0.207	30	
1,1-Dichloroethane	51		"	50.0		102	75-130		2.49	30	
1,1-Dichloroethylene	44		"	50.0		88.7	64-137		36.9	30	Non-dir.
1,2,3-Trichlorobenzene	52		"	50.0		104	81-140		1.93	30	
1,2,3-Trichloropropane	50		"	50.0		99.0	81-126		0.913	30	
1,2,4-Trichlorobenzene	51		"	50.0		102	80-141		1.66	30	
1,2,4-Trimethylbenzene	46		"	50.0		91.7	84-125		4.96	30	
1,2-Dibromo-3-chloropropane	37		"	50.0		73.5	74-142	Low Bias	1.59	30	
1,2-Dibromoethane	46		"	50.0		92.8	86-123		0.816	30	
1,2-Dichlorobenzene	48		"	50.0		95.9	85-122		3.29	30	
1,2-Dichloroethane	55		"	50.0		110	71-133		1.17	30	
1,2-Dichloropropane	43		"	50.0		86.9	81-122		2.78	30	
1,3,5-Trimethylbenzene	44		"	50.0		88.4	82-126		4.94	30	
1,3-Dichlorobenzene	49		"	50.0		97.6	84-124		3.59	30	
1,4-Dichlorobenzene	48		"	50.0		96.0	84-124		3.78	30	
1,4-Dioxane	390		"	1050		37.4	10-228		7.63	30	
2-Butanone	49		"	50.0		97.8	58-147		3.14	30	
2-Hexanone	38		"	50.0		75.8	70-139		1.36	30	
4-Methyl-2-pentanone	30		"	50.0		59.7	72-132	Low Bias	2.15	30	
Acetone	32		"	50.0		65.0	36-155		43.6	30	Non-dir.
Acrolein	67		"	50.0		134	10-238		65.9	30	Non-dir.
Acrylonitrile	56		"	50.0		112	66-141		2.06	30	
Benzene	54		"	50.0		109	77-127		2.33	30	
Bromochloromethane	52		"	50.0		103	74-129		1.17	30	
Bromodichloromethane	41		"	50.0		82.3	81-124		0.292	30	
Bromoform	45		"	50.0		90.3	80-136		3.82	30	
Bromomethane	44		"	50.0		87.1	32-177		9.18	30	
Carbon disulfide	51		"	50.0		102	10-136		1.50	30	
Carbon tetrachloride	51		"	50.0		103	66-143		3.61	30	
Chlorobenzene	50		"	50.0		100	86-120		2.68	30	
Chloroethane	42		"	50.0		84.3	51-142		11.5	30	
Chloroform	55		"	50.0		110	76-131		1.69	30	
Chloromethane	41		"	50.0		83.0	49-132		8.18	30	
cis-1,2-Dichloroethylene	51		"	50.0		103	74-132		1.73	30	
cis-1,3-Dichloropropylene	39		"	50.0		78.3	81-129	Low Bias	0.461	30	
Cyclohexane	54		"	50.0		108	70-130		3.55	30	
Dibromochloromethane	44		"	50.0		88.0	10-200		1.44	30	
Dibromomethane	47		"	50.0		93.4	83-124		1.25	30	
Dichlorodifluoromethane	64		"	50.0		128	28-158		3.91	30	
Ethyl Benzene	46		"	50.0		91.6	84-125		3.83	30	
Hexachlorobutadiene	52		"	50.0		104	83-133		5.33	30	
Isopropylbenzene	47		"	50.0		93.2	81-127		6.01	30	
Methyl acetate	50		"	50.0		100	41-143		3.54	30	
Methyl tert-butyl ether (MTBE)	47		"	50.0		94.6	74-131		1.41	30	
Methylcyclohexane	40		"	50.0		80.8	70-130		5.07	30	
Methylene chloride	49		"	50.0		97.1	57-141		0.516	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30956 - EPA 5035A											
LCS Dup (BK30956-BSD1)								Prepared & Analyzed: 11/15/2023			
n-Butylbenzene	43		ug/L	50.0		85.3	80-130		5.42	30	
n-Propylbenzene	45		"	50.0		89.0	74-136		5.61	30	
o-Xylene	42		"	50.0		84.1	83-123		2.65	30	
p- & m- Xylenes	92		"	100		91.7	82-128		3.65	30	
p-Isopropyltoluene	46		"	50.0		92.1	85-125		5.67	30	
sec-Butylbenzene	46		"	50.0		91.1	83-125		5.87	30	
Styrene	42		"	50.0		84.0	86-126	Low Bias	2.09	30	
tert-Butyl alcohol (TBA)	220		"	250		89.6	70-130		3.84	30	
tert-Butylbenzene	42		"	50.0		84.7	80-127		5.31	30	
Tetrachloroethylene	38		"	50.0		76.5	80-129	Low Bias	3.40	30	
Toluene	46		"	50.0		91.2	85-121		3.59	30	
trans-1,2-Dichloroethylene	52		"	50.0		104	72-132		3.44	30	
trans-1,3-Dichloropropylene	38		"	50.0		76.0	78-132	Low Bias	0.210	30	
trans-1,4-dichloro-2-butene	47		"	50.0		93.7	75-135		0.0427	30	
Trichloroethylene	44		"	50.0		88.3	84-123		3.27	30	
Trichlorofluoromethane	48		"	50.0		96.5	62-140		8.45	30	
Vinyl Chloride	42		"	50.0		84.6	52-130		8.70	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.6*		*"*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*44.4*		*"*	*50.0*		*88.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.2*		*"*	*50.0*		*96.4*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
Blank (BK30881-BLK1)											Prepared & Analyzed: 11/14/2023
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
Blank (BK30881-BLK1)											Prepared & Analyzed: 11/14/2023
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*1.11*		"	*1.66*		*67.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.07*		"	*1.66*		*64.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.518*		"	*0.831*		*62.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.501*		"	*0.831*		*60.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.07*		"	*1.66*		*64.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.612*		"	*0.831*		*73.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
LCS (BK30881-BS1)							Prepared & Analyzed: 11/14/2023				
1,1-Biphenyl	0.555	0.0416	mg/kg wet	0.831		66.8	18-111				
1,2,4,5-Tetrachlorobenzene	0.574	0.0830	"	0.831		69.1	21-131				
1,2,4-Trichlorobenzene	0.563	0.0416	"	0.831		67.8	10-140				
1,2-Dichlorobenzene	0.533	0.0416	"	0.831		64.2	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.600	0.0416	"	0.831		72.2	17-137				
1,3-Dichlorobenzene	0.519	0.0416	"	0.831		62.5	33-110				
1,4-Dichlorobenzene	0.516	0.0416	"	0.831		62.1	32-104				
2,3,4,6-Tetrachlorophenol	0.666	0.0830	"	0.831		80.2	30-130				
2,4,5-Trichlorophenol	0.583	0.0416	"	0.831		70.2	27-118				
2,4,6-Trichlorophenol	0.610	0.0416	"	0.831		73.5	31-120				
2,4-Dichlorophenol	0.618	0.0416	"	0.831		74.4	20-127				
2,4-Dimethylphenol	0.558	0.0416	"	0.831		67.2	14-132				
2,4-Dinitrophenol	0.590	0.0830	"	0.831		71.0	10-171				
2,4-Dinitrotoluene	0.635	0.0416	"	0.831		76.4	34-131				
2,6-Dinitrotoluene	0.617	0.0416	"	0.831		74.3	31-128				
2-Chloronaphthalene	0.557	0.0416	"	0.831		67.1	31-117				
2-Chlorophenol	0.574	0.0416	"	0.831		69.1	33-113				
2-Methylnaphthalene	0.582	0.0416	"	0.831		70.1	12-138				
2-Methylphenol	0.526	0.0416	"	0.831		63.3	10-136				
2-Nitroaniline	0.607	0.0830	"	0.831		73.1	27-132				
2-Nitrophenol	0.623	0.0416	"	0.831		75.0	17-129				
3- & 4-Methylphenols	0.526	0.0416	"	0.831		63.3	29-103				
3,3-Dichlorobenzidine	0.463	0.0416	"	0.831		55.8	22-149				
3-Nitroaniline	0.500	0.0830	"	0.831		60.2	20-133				
4,6-Dinitro-2-methylphenol	0.721	0.0830	"	0.831		86.8	10-143				
4-Bromophenyl phenyl ether	0.564	0.0416	"	0.831		67.9	29-120				
4-Chloro-3-methylphenol	0.650	0.0416	"	0.831		78.2	24-129				
4-Chloroaniline	0.306	0.0416	"	0.831		36.8	10-132				
4-Chlorophenyl phenyl ether	0.545	0.0416	"	0.831		65.6	27-124				
4-Nitroaniline	0.573	0.0830	"	0.831		69.0	16-128				
4-Nitrophenol	0.593	0.0830	"	0.831		71.4	10-141				
Acenaphthene	0.557	0.0416	"	0.831		67.1	30-121				
Acenaphthylene	0.538	0.0416	"	0.831		64.8	30-115				
Acetophenone	0.597	0.0416	"	0.831		71.9	20-112				
Aniline	0.413	0.166	"	0.831		49.8	10-119				
Anthracene	0.576	0.0416	"	0.831		69.4	34-118				
Atrazine	0.670	0.0416	"	0.831		80.7	26-112				
Benzaldehyde	0.517	0.0416	"	0.831		62.3	21-100				
Benzo(a)anthracene	0.617	0.0416	"	0.831		74.3	32-122				
Benzo(a)pyrene	0.604	0.0416	"	0.831		72.7	29-133				
Benzo(b)fluoranthene	0.608	0.0416	"	0.831		73.2	25-133				
Benzo(g,h,i)perylene	0.641	0.0416	"	0.831		77.2	10-143				
Benzo(k)fluoranthene	0.600	0.0416	"	0.831		72.2	25-128				
Benzoic acid	0.341	0.0416	"	0.831		41.0	10-140				
Benzyl alcohol	0.580	0.0416	"	0.831		69.8	30-115				
Benzyl butyl phthalate	0.687	0.0416	"	0.831		82.7	26-126				
Bis(2-chloroethoxy)methane	0.608	0.0416	"	0.831		73.2	19-132				
Bis(2-chloroethyl)ether	0.553	0.0416	"	0.831		66.6	19-125				
Bis(2-chloroisopropyl)ether	0.591	0.0416	"	0.831		71.2	20-135				
Bis(2-ethylhexyl)phthalate	0.723	0.0416	"	0.831		87.0	10-155				
Caprolactam	0.752	0.0830	"	0.831		90.6	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
LCS (BK30881-BS1)								Prepared & Analyzed: 11/14/2023			
Carbazole	0.596	0.0416	mg/kg wet	0.831		71.7	35-123				
Chrysene	0.608	0.0416	"	0.831		73.2	32-123				
Dibenzo(a,h)anthracene	0.664	0.0416	"	0.831		80.0	10-136				
Dibenzofuran	0.556	0.0416	"	0.831		67.0	29-121				
Diethyl phthalate	0.578	0.0416	"	0.831		69.6	34-116				
Dimethyl phthalate	0.579	0.0416	"	0.831		69.7	35-124				
Di-n-butyl phthalate	0.620	0.0416	"	0.831		74.7	31-116				
Di-n-octyl phthalate	0.735	0.0416	"	0.831		88.5	26-136				
Diphenylamine	0.675	0.0830	"	0.831		81.3	40-140				
Fluoranthene	0.576	0.0416	"	0.831		69.4	33-122				
Fluorene	0.550	0.0416	"	0.831		66.3	29-123				
Hexachlorobenzene	0.591	0.0416	"	0.831		71.2	21-124				
Hexachlorobutadiene	0.572	0.0416	"	0.831		68.9	10-149				
Hexachlorocyclopentadiene	0.358	0.0416	"	0.831		43.1	10-129				
Hexachloroethane	0.529	0.0416	"	0.831		63.6	28-108				
Indeno(1,2,3-cd)pyrene	0.654	0.0416	"	0.831		78.8	10-135				
Isophorone	0.624	0.0416	"	0.831		75.2	20-132				
Naphthalene	0.573	0.0416	"	0.831		69.0	23-124				
Nitrobenzene	0.604	0.0416	"	0.831		72.7	13-132				
N-Nitrosodimethylamine	0.571	0.0416	"	0.831		68.7	11-129				
N-nitroso-di-n-propylamine	0.564	0.0416	"	0.831		67.9	24-119				
N-Nitrosodiphenylamine	0.650	0.0416	"	0.831		78.2	22-152				
Pentachlorophenol	0.625	0.0416	"	0.831		75.2	10-139				
Phenanthrene	0.578	0.0416	"	0.831		69.6	33-123				
Phenol	0.600	0.0416	"	0.831		72.2	23-115				
Pyrene	0.620	0.0416	"	0.831		74.7	32-130				
Surrogate: SURR: 2-Fluorophenol	*1.18*		*"*	*1.66*		*71.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.15*		*"*	*1.66*		*69.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.600*		*"*	*0.831*		*72.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.528*		*"*	*0.831*		*63.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.18*		*"*	*1.66*		*71.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.605*		*"*	*0.831*		*72.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
Matrix Spike (BK30881-MS1)	*Source sample: 23K0580-18 (23SP1 (22.5-25ft))							Prepared: 11/14/2023 Analyzed: 11/15/2023			
1,1-Biphenyl	0.580	0.106	mg/kg dry	1.06	ND	54.9	10-130				
1,2,4,5-Tetrachlorobenzene	0.569	0.211	"	1.06	ND	53.8	10-133				
1,2,4-Trichlorobenzene	0.586	0.106	"	1.06	ND	55.4	10-127				
1,2-Dichlorobenzene	0.514	0.106	"	1.06	ND	48.6	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.457	0.106	"	1.06	ND	43.2	10-144				
1,3-Dichlorobenzene	0.507	0.106	"	1.06	ND	47.9	11-111				
1,4-Dichlorobenzene	0.500	0.106	"	1.06	ND	47.3	10-106				
2,3,4,6-Tetrachlorophenol	0.782	0.211	"	1.06	ND	73.9	30-130				
2,4,5-Trichlorophenol	0.686	0.106	"	1.06	ND	64.9	10-127				
2,4,6-Trichlorophenol	0.686	0.106	"	1.06	ND	64.9	10-132				
2,4-Dichlorophenol	0.633	0.106	"	1.06	ND	59.8	10-128				
2,4-Dimethylphenol	0.523	0.106	"	1.06	ND	49.4	10-137				
2,4-Dinitrophenol	ND	0.211	"	1.06	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.400	0.106	"	1.06	ND	37.8	16-135				
2,6-Dinitrotoluene	0.466	0.106	"	1.06	ND	44.1	18-131				
2-Chloronaphthalene	0.573	0.106	"	1.06	ND	54.2	10-129				
2-Chlorophenol	0.542	0.106	"	1.06	ND	51.3	15-116				
2-Methylnaphthalene	0.580	0.106	"	1.06	ND	54.9	10-147				
2-Methylphenol	0.528	0.106	"	1.06	ND	49.9	10-136				
2-Nitroaniline	0.688	0.211	"	1.06	ND	65.1	10-137				
2-Nitrophenol	0.366	0.106	"	1.06	ND	34.6	10-129				
3- & 4-Methylphenols	0.480	0.106	"	1.06	ND	45.4	10-123				
3,3-Dichlorobenzidine	0.657	0.106	"	1.06	ND	62.2	10-155				
3-Nitroaniline	0.725	0.211	"	1.06	ND	68.6	12-133				
4,6-Dinitro-2-methylphenol	ND	0.211	"	1.06	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	0.592	0.106	"	1.06	ND	56.0	14-128				
4-Chloro-3-methylphenol	0.673	0.106	"	1.06	ND	63.7	10-134				
4-Chloroaniline	0.453	0.106	"	1.06	ND	42.9	10-145				
4-Chlorophenyl phenyl ether	0.610	0.106	"	1.06	ND	57.7	14-130				
4-Nitroaniline	0.732	0.211	"	1.06	ND	69.2	10-147				
4-Nitrophenol	0.464	0.211	"	1.06	ND	43.8	10-137				
Acenaphthene	0.577	0.106	"	1.06	ND	54.6	10-146				
Acenaphthylene	0.562	0.106	"	1.06	ND	53.2	10-134				
Acetophenone	0.524	0.106	"	1.06	ND	49.5	10-116				
Aniline	0.360	0.424	"	1.06	ND	34.1	10-123				
Anthracene	0.628	0.106	"	1.06	ND	59.4	10-142				
Atrazine	0.590	0.106	"	1.06	ND	55.8	19-115				
Benzaldehyde	0.435	0.106	"	1.06	ND	41.1	10-125				
Benzo(a)anthracene	0.683	0.106	"	1.06	ND	64.6	10-158				
Benzo(a)pyrene	0.629	0.106	"	1.06	ND	59.5	10-180				
Benzo(b)fluoranthene	0.644	0.106	"	1.06	ND	60.9	10-200				
Benzo(g,h,i)perylene	0.544	0.106	"	1.06	ND	51.4	10-138				
Benzo(k)fluoranthene	0.627	0.106	"	1.06	ND	59.3	10-197				
Benzoic acid	ND	0.106	"	1.06	ND		10-166	Low Bias			
Benzyl alcohol	0.474	0.106	"	1.06	ND	44.9	12-124				
Benzyl butyl phthalate	0.761	0.106	"	1.06	ND	72.0	10-154				
Bis(2-chloroethoxy)methane	0.532	0.106	"	1.06	ND	50.3	10-132				
Bis(2-chloroethyl)ether	0.491	0.106	"	1.06	ND	46.5	10-119				
Bis(2-chloroisopropyl)ether	0.388	0.106	"	1.06	ND	36.7	10-139				
Bis(2-ethylhexyl)phthalate	0.787	0.106	"	1.06	ND	74.5	10-167				
Caprolactam	0.787	0.211	"	1.06	ND	74.4	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
Matrix Spike (BK30881-MS1)	*Source sample: 23K0580-18 (23SP1 (22.5-25ft))							Prepared: 11/14/2023 Analyzed: 11/15/2023			
Carbazole	0.653	0.106	mg/kg dry	1.06	ND	61.8	10-167				
Chrysene	0.624	0.106	"	1.06	ND	59.0	10-156				
Dibenzo(a,h)anthracene	0.623	0.106	"	1.06	ND	58.9	10-137				
Dibenzofuran	0.593	0.106	"	1.06	ND	56.1	10-147				
Diethyl phthalate	0.627	0.106	"	1.06	ND	59.3	20-120				
Dimethyl phthalate	0.593	0.106	"	1.06	ND	56.1	18-131				
Di-n-butyl phthalate	0.677	0.106	"	1.06	ND	64.1	10-137				
Di-n-octyl phthalate	0.895	0.106	"	1.06	ND	84.6	10-180				
Diphenylamine	0.716	0.211	"	1.06	ND	67.7	40-140				
Fluoranthene	0.647	0.106	"	1.06	ND	61.2	10-160				
Fluorene	0.608	0.106	"	1.06	ND	57.5	10-157				
Hexachlorobenzene	0.566	0.106	"	1.06	ND	53.5	10-137				
Hexachlorobutadiene	0.593	0.106	"	1.06	ND	56.1	10-132				
Hexachlorocyclopentadiene	ND	0.106	"	1.06	ND		10-106	Low Bias			
Hexachloroethane	0.287	0.106	"	1.06	ND	27.1	10-110				
Indeno(1,2,3-cd)pyrene	0.650	0.106	"	1.06	ND	61.5	10-144				
Isophorone	0.544	0.106	"	1.06	ND	51.4	10-132				
Naphthalene	0.572	0.106	"	1.06	ND	54.1	10-141				
Nitrobenzene	0.498	0.106	"	1.06	ND	47.1	10-131				
N-Nitrosodimethylamine	0.373	0.106	"	1.06	ND	35.3	10-126				
N-nitroso-di-n-propylamine	0.483	0.106	"	1.06	ND	45.7	10-125				
N-Nitrosodiphenylamine	0.673	0.106	"	1.06	ND	63.7	10-177				
Pentachlorophenol	0.638	0.106	"	1.06	ND	60.3	10-153				
Phenanthrene	0.621	0.106	"	1.06	ND	58.7	10-148				
Phenol	0.491	0.106	"	1.06	ND	46.4	10-126				
Pyrene	0.693	0.106	"	1.06	ND	65.5	10-165				
Surrogate: SURR: 2-Fluorophenol	*1.05*		"	*2.11*		*49.8*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.05*		"	*2.11*		*49.7*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.543*		"	*1.06*		*51.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.590*		"	*1.06*		*55.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.51*		"	*2.11*		*71.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.688*		"	*1.06*		*65.1*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
Matrix Spike Dup (BK30881-MSD1)	*Source sample: 23K0580-18 (23SP1 (22.5-25ft))								Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,1-Biphenyl	0.537	0.106	mg/kg dry	1.06	ND	50.8	10-130		7.72	30	
1,2,4,5-Tetrachlorobenzene	0.505	0.211	"	1.06	ND	47.8	10-133		12.0	30	
1,2,4-Trichlorobenzene	0.522	0.106	"	1.06	ND	49.4	10-127		11.6	30	
1,2-Dichlorobenzene	0.474	0.106	"	1.06	ND	44.9	14-111		8.04	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.436	0.106	"	1.06	ND	41.3	10-144		4.55	30	
1,3-Dichlorobenzene	0.460	0.106	"	1.06	ND	43.5	11-111		9.62	30	
1,4-Dichlorobenzene	0.471	0.106	"	1.06	ND	44.6	10-106		5.92	30	
2,3,4,6-Tetrachlorophenol	0.694	0.211	"	1.06	ND	65.7	30-130		11.8	30	
2,4,5-Trichlorophenol	0.593	0.106	"	1.06	ND	56.1	10-127		14.6	30	
2,4,6-Trichlorophenol	0.621	0.106	"	1.06	ND	58.7	10-132		9.97	30	
2,4-Dichlorophenol	0.573	0.106	"	1.06	ND	54.2	10-128		9.96	30	
2,4-Dimethylphenol	0.481	0.106	"	1.06	ND	45.5	10-137		8.26	30	
2,4-Dinitrophenol	ND	0.211	"	1.06	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.408	0.106	"	1.06	ND	38.6	16-135		1.88	30	
2,6-Dinitrotoluene	0.469	0.106	"	1.06	ND	44.4	18-131		0.723	30	
2-Chloronaphthalene	0.518	0.106	"	1.06	ND	49.0	10-129		10.2	30	
2-Chlorophenol	0.510	0.106	"	1.06	ND	48.2	15-116		6.11	30	
2-Methylnaphthalene	0.523	0.106	"	1.06	ND	49.4	10-147		10.4	30	
2-Methylphenol	0.507	0.106	"	1.06	ND	47.9	10-136		4.09	30	
2-Nitroaniline	0.608	0.211	"	1.06	ND	57.5	10-137		12.4	30	
2-Nitrophenol	0.388	0.106	"	1.06	ND	36.7	10-129		5.83	30	
3- & 4-Methylphenols	0.446	0.106	"	1.06	ND	42.2	10-123		7.31	30	
3,3-Dichlorobenzidine	0.591	0.106	"	1.06	ND	55.9	10-155		10.6	30	
3-Nitroaniline	0.618	0.211	"	1.06	ND	58.5	12-133		15.9	30	
4,6-Dinitro-2-methylphenol	0.118	0.211	"	1.06	ND	11.1	10-155			30	
4-Bromophenyl phenyl ether	0.526	0.106	"	1.06	ND	49.8	14-128		11.8	30	
4-Chloro-3-methylphenol	0.597	0.106	"	1.06	ND	56.5	10-134		12.0	30	
4-Chloroaniline	0.390	0.106	"	1.06	ND	36.9	10-145		15.0	30	
4-Chlorophenyl phenyl ether	0.562	0.106	"	1.06	ND	53.1	14-130		8.23	30	
4-Nitroaniline	0.631	0.211	"	1.06	ND	59.7	10-147		14.8	30	
4-Nitrophenol	0.437	0.211	"	1.06	ND	41.4	10-137		5.82	30	
Acenaphthene	0.524	0.106	"	1.06	ND	49.5	10-146		9.68	30	
Acenaphthylene	0.513	0.106	"	1.06	ND	48.6	10-134		9.12	30	
Acetophenone	0.480	0.106	"	1.06	ND	45.4	10-116		8.59	30	
Aniline	0.341	0.424	"	1.06	ND	32.2	10-123		5.55	30	
Anthracene	0.559	0.106	"	1.06	ND	52.9	10-142		11.7	30	
Atrazine	0.548	0.106	"	1.06	ND	51.8	19-115		7.43	30	
Benzaldehyde	0.404	0.106	"	1.06	ND	38.2	10-125		7.26	30	
Benzo(a)anthracene	0.606	0.106	"	1.06	ND	57.4	10-158		11.8	30	
Benzo(a)pyrene	0.563	0.106	"	1.06	ND	53.3	10-180		11.1	30	
Benzo(b)fluoranthene	0.573	0.106	"	1.06	ND	54.2	10-200		11.7	30	
Benzo(g,h,i)perylene	0.503	0.106	"	1.06	ND	47.6	10-138		7.75	30	
Benzo(k)fluoranthene	0.541	0.106	"	1.06	ND	51.2	10-197		14.6	30	
Benzoic acid	ND	0.106	"	1.06	ND		10-166	Low Bias		30	
Benzyl alcohol	0.446	0.106	"	1.06	ND	42.2	12-124		6.25	30	
Benzyl butyl phthalate	0.691	0.106	"	1.06	ND	65.4	10-154		9.67	30	
Bis(2-chloroethoxy)methane	0.484	0.106	"	1.06	ND	45.8	10-132		9.49	30	
Bis(2-chloroethyl)ether	0.453	0.106	"	1.06	ND	42.8	10-119		8.24	30	
Bis(2-chloroisopropyl)ether	0.369	0.106	"	1.06	ND	34.9	10-139		5.14	30	
Bis(2-ethylhexyl)phthalate	0.720	0.106	"	1.06	ND	68.1	10-167		8.98	30	
Caprolactam	0.704	0.211	"	1.06	ND	66.6	10-132		11.1	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
Matrix Spike Dup (BK30881-MSD1)	*Source sample: 23K0580-18 (23SP1 (22.5-25ft))								Prepared: 11/14/2023 Analyzed: 11/15/2023		
Carbazole	0.579	0.106	mg/kg dry	1.06	ND	54.8	10-167		11.9	30	
Chrysene	0.546	0.106	"	1.06	ND	51.6	10-156		13.4	30	
Dibenzo(a,h)anthracene	0.557	0.106	"	1.06	ND	52.6	10-137		11.2	30	
Dibenzofuran	0.541	0.106	"	1.06	ND	51.2	10-147		9.10	30	
Diethyl phthalate	0.570	0.106	"	1.06	ND	53.9	20-120		9.47	30	
Dimethyl phthalate	0.551	0.106	"	1.06	ND	52.2	18-131		7.24	30	
Di-n-butyl phthalate	0.615	0.106	"	1.06	ND	58.2	10-137		9.69	30	
Di-n-octyl phthalate	0.815	0.106	"	1.06	ND	77.1	10-180		9.30	30	
Diphenylamine	0.647	0.211	"	1.06	ND	61.2	40-140		10.1	30	
Fluoranthene	0.561	0.106	"	1.06	ND	53.0	10-160		14.3	30	
Fluorene	0.544	0.106	"	1.06	ND	51.4	10-157		11.2	30	
Hexachlorobenzene	0.510	0.106	"	1.06	ND	48.2	10-137		10.4	30	
Hexachlorobutadiene	0.521	0.106	"	1.06	ND	49.3	10-132		12.9	30	
Hexachlorocyclopentadiene	ND	0.106	"	1.06	ND		10-106	Low Bias		30	
Hexachloroethane	0.304	0.106	"	1.06	ND	28.7	10-110		5.73	30	
Indeno(1,2,3-cd)pyrene	0.611	0.106	"	1.06	ND	57.8	10-144		6.30	30	
Isophorone	0.512	0.106	"	1.06	ND	48.4	10-132		6.09	30	
Naphthalene	0.507	0.106	"	1.06	ND	48.0	10-141		11.9	30	
Nitrobenzene	0.457	0.106	"	1.06	ND	43.2	10-131		8.68	30	
N-Nitrosodimethylamine	0.368	0.106	"	1.06	ND	34.8	10-126		1.37	30	
N-nitroso-di-n-propylamine	0.444	0.106	"	1.06	ND	42.0	10-125		8.39	30	
N-Nitrosodiphenylamine	0.605	0.106	"	1.06	ND	57.2	10-177		10.7	30	
Pentachlorophenol	0.550	0.106	"	1.06	ND	52.0	10-153		14.8	30	
Phenanthrene	0.547	0.106	"	1.06	ND	51.8	10-148		12.6	30	
Phenol	0.456	0.106	"	1.06	ND	43.1	10-126		7.33	30	
Pyrene	0.611	0.106	"	1.06	ND	57.8	10-165		12.6	30	
Surrogate: SURR: 2-Fluorophenol	*0.941*		"	*2.11*		*44.5*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.949*		"	*2.11*		*44.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.485*		"	*1.06*		*45.9*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.524*		"	*1.06*		*49.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.26*		"	*2.11*		*59.6*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.604*		"	*1.06*		*57.1*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30935 - EPA 3550C											
Blank (BK30935-BLK1)											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

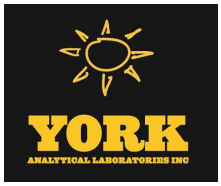
Prepared: 11/14/2023 Analyzed: 11/15/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30935 - EPA 3550C											
Blank (BK30935-BLK1)											
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*1.30*		"	*1.66*		*78.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.23*		"	*1.66*		*73.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.614*		"	*0.831*		*73.9*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.586*		"	*0.831*		*70.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.23*		"	*1.66*		*74.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.672*		"	*0.831*		*80.9*	*24-116*				

Prepared: 11/14/2023 Analyzed: 11/15/2023



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag

Batch BK30935 - EPA 3550C

LCS (BK30935-BS1) Prepared: 11/14/2023 Analyzed: 11/15/2023

1,1-Biphenyl	0.593	0.0416	mg/kg wet				18-111				
1,2,4,5-Tetrachlorobenzene	0.606	0.0830	"				21-131				
1,2,4-Trichlorobenzene	0.624	0.0416	"				10-140				
1,2-Dichlorobenzene	0.572	0.0416	"				34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.651	0.0416	"				17-137				
1,3-Dichlorobenzene	0.570	0.0416	"				33-110				
1,4-Dichlorobenzene	0.554	0.0416	"				32-104				
2,3,4,6-Tetrachlorophenol	0.664	0.0830	"				30-130				
2,4,5-Trichlorophenol	0.610	0.0416	"				27-118				
2,4,6-Trichlorophenol	0.638	0.0416	"				31-120				
2,4-Dichlorophenol	0.656	0.0416	"				20-127				
2,4-Dimethylphenol	0.580	0.0416	"				14-132				
2,4-Dinitrophenol	0.653	0.0830	"				10-171				
2,4-Dinitrotoluene	0.666	0.0416	"				34-131				
2,6-Dinitrotoluene	0.668	0.0416	"				31-128				
2-Chloronaphthalene	0.585	0.0416	"				31-117				
2-Chlorophenol	0.622	0.0416	"				33-113				
2-Methylnaphthalene	0.605	0.0416	"				12-138				
2-Methylphenol	0.535	0.0416	"				10-136				
2-Nitroaniline	0.646	0.0830	"				27-132				
2-Nitrophenol	0.684	0.0416	"				17-129				
3- & 4-Methylphenols	0.535	0.0416	"				29-103				
3,3-Dichlorobenzidine	0.485	0.0416	"				22-149				
3-Nitroaniline	0.533	0.0830	"				20-133				
4,6-Dinitro-2-methylphenol	0.759	0.0830	"				10-143				
4-Bromophenyl phenyl ether	0.583	0.0416	"				29-120				
4-Chloro-3-methylphenol	0.676	0.0416	"				24-129				
4-Chloroaniline	0.404	0.0416	"				10-132				
4-Chlorophenyl phenyl ether	0.567	0.0416	"				27-124				
4-Nitroaniline	0.571	0.0830	"				16-128				
4-Nitrophenol	0.588	0.0830	"				10-141				
Acenaphthene	0.579	0.0416	"				30-121				
Acenaphthylene	0.557	0.0416	"				30-115				
Acetophenone	0.622	0.0416	"				20-112				
Aniline	0.407	0.166	"				10-119				
Anthracene	0.578	0.0416	"				34-118				
Atrazine	0.683	0.0416	"				26-112				
Benzaldehyde	0.538	0.0416	"				21-100				
Benzo(a)anthracene	0.625	0.0416	"				32-122				
Benzo(a)pyrene	0.608	0.0416	"				29-133				
Benzo(b)fluoranthene	0.608	0.0416	"				25-133				
Benzo(g,h,i)perylene	0.637	0.0416	"				10-143				
Benzo(k)fluoranthene	0.609	0.0416	"				25-128				
Benzoic acid	0.280	0.0416	"				10-140				
Benzyl alcohol	0.593	0.0416	"				30-115				
Benzyl butyl phthalate	0.661	0.0416	"				26-126				
Bis(2-chloroethoxy)methane	0.644	0.0416	"				19-132				
Bis(2-chloroethyl)ether	0.579	0.0416	"				19-125				
Bis(2-chloroisopropyl)ether	0.603	0.0416	"				20-135				
Bis(2-ethylhexyl)phthalate	0.682	0.0416	"				10-155				
Caprolactam	0.754	0.0830	"				10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30935 - EPA 3550C											
LCS (BK30935-BS1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Carbazole	0.601	0.0416	mg/kg wet				35-123				
Chrysene	0.606	0.0416	"				32-123				
Dibenzo(a,h)anthracene	0.628	0.0416	"				10-136				
Dibenzofuran	0.577	0.0416	"				29-121				
Diethyl phthalate	0.599	0.0416	"				34-116				
Dimethyl phthalate	0.614	0.0416	"				35-124				
Di-n-butyl phthalate	0.625	0.0416	"				31-116				
Di-n-octyl phthalate	0.724	0.0416	"				26-136				
Diphenylamine	0.689	0.0830	"				40-140				
Fluoranthene	0.571	0.0416	"				33-122				
Fluorene	0.566	0.0416	"				29-123				
Hexachlorobenzene	0.602	0.0416	"				21-124				
Hexachlorobutadiene	0.624	0.0416	"				10-149				
Hexachlorocyclopentadiene	0.353	0.0416	"				10-129				
Hexachloroethane	0.581	0.0416	"				28-108				
Indeno(1,2,3-cd)pyrene	0.657	0.0416	"				10-135				
Isophorone	0.667	0.0416	"				20-132				
Naphthalene	0.614	0.0416	"				23-124				
Nitrobenzene	0.650	0.0416	"				13-132				
N-Nitrosodimethylamine	0.603	0.0416	"				11-129				
N-nitroso-di-n-propylamine	0.568	0.0416	"				24-119				
N-Nitrosodiphenylamine	0.672	0.0416	"				22-152				
Pentachlorophenol	0.653	0.0416	"				10-139				
Phenanthrene	0.588	0.0416	"				33-123				
Phenol	0.627	0.0416	"				23-115				
Pyrene	0.639	0.0416	"				32-130				
Surrogate: SURR: 2-Fluorophenol	*1.28*		*"*	*1.66*		*76.9*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.20*		*"*	*1.66*		*72.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.661*		*"*	*0.831*		*79.6*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.581*		*"*	*0.831*		*70.0*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.21*		*"*	*1.66*		*73.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.619*		*"*	*0.831*		*74.5*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30935 - EPA 3550C											
Matrix Spike (BK30935-MS1)	*Source sample: 23K0717-06 (Matrix Spike)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,1-Biphenyl	0.559	0.0917	mg/kg dry		ND		10-130				
1,2,4,5-Tetrachlorobenzene	0.569	0.183	"		ND		10-133				
1,2,4-Trichlorobenzene	0.564	0.0917	"		ND		10-127				
1,2-Dichlorobenzene	0.511	0.0917	"		ND		14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.647	0.0917	"		ND		10-144				
1,3-Dichlorobenzene	0.484	0.0917	"		ND		11-111				
1,4-Dichlorobenzene	0.483	0.0917	"		ND		10-106				
2,3,4,6-Tetrachlorophenol	0.717	0.183	"		ND		30-130				
2,4,5-Trichlorophenol	0.656	0.0917	"		ND		10-127				
2,4,6-Trichlorophenol	0.618	0.0917	"		ND		10-132				
2,4-Dichlorophenol	0.647	0.0917	"		ND		10-128				
2,4-Dimethylphenol	0.564	0.0917	"		ND		10-137				
2,4-Dinitrophenol	ND	0.183	"		ND		10-171				
2,4-Dinitrotoluene	0.634	0.0917	"		ND		16-135				
2,6-Dinitrotoluene	0.613	0.0917	"		ND		18-131				
2-Chloronaphthalene	0.561	0.0917	"		ND		10-129				
2-Chlorophenol	0.578	0.0917	"		ND		15-116				
2-Methylnaphthalene	0.601	0.0917	"		ND		10-147				
2-Methylphenol	0.528	0.0917	"		ND		10-136				
2-Nitroaniline	0.615	0.183	"		ND		10-137				
2-Nitrophenol	0.619	0.0917	"		ND		10-129				
3- & 4-Methylphenols	0.528	0.0917	"		ND		10-123				
3,3-Dichlorobenzidine	0.207	0.0917	"		ND		10-155				
3-Nitroaniline	0.423	0.183	"		ND		12-133				
4,6-Dinitro-2-methylphenol	0.273	0.183	"		ND		10-155				
4-Bromophenyl phenyl ether	0.557	0.0917	"		ND		14-128				
4-Chloro-3-methylphenol	0.689	0.0917	"		ND		10-134				
4-Chloroaniline	0.374	0.0917	"		ND		10-145				
4-Chlorophenyl phenyl ether	0.565	0.0917	"		ND		14-130				
4-Nitroaniline	0.403	0.183	"		ND		10-147				
4-Nitrophenol	0.611	0.183	"		ND		10-137				
Acenaphthene	0.573	0.0917	"		ND		10-146				
Acenaphthylene	0.607	0.0917	"		0.0577		10-134				
Acetophenone	0.653	0.0917	"		ND		10-116				
Aniline	0.325	0.367	"		ND		10-123				
Anthracene	0.687	0.0917	"		0.115		10-142				
Atrazine	0.679	0.0917	"		ND		19-115				
Benzaldehyde	0.548	0.0917	"		ND		10-125				
Benzo(a)anthracene	1.07	0.0917	"		0.443		10-158				
Benzo(a)pyrene	0.975	0.0917	"		0.378		10-180				
Benzo(b)fluoranthene	1.13	0.0917	"		0.521		10-200				
Benzo(g,h,i)perylene	0.851	0.0917	"		0.196		10-138				
Benzo(k)fluoranthene	0.792	0.0917	"		0.171		10-197				
Benzoic acid	0.0865	0.0917	"		ND		10-166				
Benzyl alcohol	0.566	0.0917	"		ND		12-124				
Benzyl butyl phthalate	0.715	0.0917	"		ND		10-154				
Bis(2-chloroethoxy)methane	0.577	0.0917	"		ND		10-132				
Bis(2-chloroethyl)ether	0.555	0.0917	"		ND		10-119				
Bis(2-chloroisopropyl)ether	0.570	0.0917	"		ND		10-139				
Bis(2-ethylhexyl)phthalate	3.01	0.0917	"		0.140		10-167				
Caprolactam	0.757	0.183	"		ND		10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30935 - EPA 3550C											
Matrix Spike (BK30935-MS1)	*Source sample: 23K0717-06 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/15/2023			
Carbazole	0.650	0.0917	mg/kg dry		ND		10-167				
Chrysene	1.07	0.0917	"		0.437		10-156				
Dibenzo(a,h)anthracene	0.636	0.0917	"		0.0584		10-137				
Dibenzofuran	0.578	0.0917	"		ND		10-147				
Diethyl phthalate	0.571	0.0917	"		ND		20-120				
Dimethyl phthalate	0.559	0.0917	"		ND		18-131				
Di-n-butyl phthalate	0.925	0.0917	"		0.0541		10-137				
Di-n-octyl phthalate	6.57	0.0917	"		ND		10-180				
Diphenylamine	0.661	0.183	"		ND		40-140				
Fluoranthene	1.42	0.0917	"		0.796		10-160				
Fluorene	0.595	0.0917	"		ND		10-157				
Hexachlorobenzene	0.591	0.0917	"		ND		10-137				
Hexachlorobutadiene	0.589	0.0917	"		ND		10-132				
Hexachlorocyclopentadiene	0.196	0.0917	"		ND		10-106				
Hexachloroethane	0.543	0.0917	"		ND		10-110				
Indeno(1,2,3-cd)pyrene	0.874	0.0917	"		0.257		10-144				
Isophorone	0.614	0.0917	"		ND		10-132				
Naphthalene	0.603	0.0917	"		ND		10-141				
Nitrobenzene	0.580	0.0917	"		ND		10-131				
N-Nitrosodimethylamine	0.512	0.0917	"		ND		10-126				
N-nitroso-di-n-propylamine	0.560	0.0917	"		ND		10-125				
N-Nitrosodiphenylamine	0.640	0.0917	"		ND		10-177				
Pentachlorophenol	0.621	0.0917	"		ND		10-153				
Phenanthrene	0.945	0.0917	"		0.413		10-148				
Phenol	0.603	0.0917	"		ND		10-126				
Pyrene	1.44	0.0917	"		0.970		10-165				
Surrogate: SURR: 2-Fluorophenol	*1.21*		"	*1.83*		*66.3*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.17*		"	*1.83*		*63.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.602*		"	*0.916*		*65.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.547*		"	*0.916*		*59.8*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.31*		"	*1.83*		*71.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.638*		"	*0.916*		*69.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30935 - EPA 3550C											
Matrix Spike Dup (BK30935-MSD1)	*Source sample: 23K0717-06 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,1-Biphenyl	0.483	0.0917	mg/kg dry		ND		10-130		14.6	30	
1,2,4,5-Tetrachlorobenzene	0.500	0.183	"		ND		10-133		12.7	30	
1,2,4-Trichlorobenzene	0.505	0.0917	"		ND		10-127		11.1	30	
1,2-Dichlorobenzene	0.456	0.0917	"		ND		14-111		11.4	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.555	0.0917	"		ND		10-144		15.2	30	
1,3-Dichlorobenzene	0.437	0.0917	"		ND		11-111		10.3	30	
1,4-Dichlorobenzene	0.433	0.0917	"		ND		10-106		10.9	30	
2,3,4,6-Tetrachlorophenol	0.661	0.183	"		ND		30-130		8.19	30	
2,4,5-Trichlorophenol	0.565	0.0917	"		ND		10-127		14.9	30	
2,4,6-Trichlorophenol	0.568	0.0917	"		ND		10-132		8.52	30	
2,4-Dichlorophenol	0.571	0.0917	"		ND		10-128		12.4	30	
2,4-Dimethylphenol	0.481	0.0917	"		ND		10-137		16.0	30	
2,4-Dinitrophenol	ND	0.183	"		ND		10-171			30	
2,4-Dinitrotoluene	0.525	0.0917	"		ND		16-135		19.0	30	
2,6-Dinitrotoluene	0.519	0.0917	"		ND		18-131		16.6	30	
2-Chloronaphthalene	0.500	0.0917	"		ND		10-129		11.6	30	
2-Chlorophenol	0.520	0.0917	"		ND		15-116		10.5	30	
2-Methylnaphthalene	0.524	0.0917	"		ND		10-147		13.7	30	
2-Methylphenol	0.475	0.0917	"		ND		10-136		10.4	30	
2-Nitroaniline	0.566	0.183	"		ND		10-137		8.19	30	
2-Nitrophenol	0.488	0.0917	"		ND		10-129		23.7	30	
3- & 4-Methylphenols	0.475	0.0917	"		ND		10-123		10.4	30	
3,3-Dichlorobenzidine	0.188	0.0917	"		ND		10-155		9.67	30	
3-Nitroaniline	0.444	0.183	"		ND		12-133		4.90	30	
4,6-Dinitro-2-methylphenol	0.121	0.183	"		ND		10-155		77.3	30	Non-dir.
4-Bromophenyl phenyl ether	0.516	0.0917	"		ND		14-128		7.65	30	
4-Chloro-3-methylphenol	0.626	0.0917	"		ND		10-134		9.59	30	
4-Chloroaniline	0.350	0.0917	"		ND		10-145		6.67	30	
4-Chlorophenyl phenyl ether	0.508	0.0917	"		ND		14-130		10.7	30	
4-Nitroaniline	0.458	0.183	"		ND		10-147		12.8	30	
4-Nitrophenol	0.540	0.183	"		ND		10-137		12.3	30	
Acenaphthene	0.511	0.0917	"		ND		10-146		11.5	30	
Acenaphthylene	0.571	0.0917	"		0.0577		10-134		6.10	30	
Acetophenone	0.542	0.0917	"		ND		10-116		18.5	30	
Aniline	0.286	0.367	"		ND		10-123		12.7	30	
Anthracene	0.636	0.0917	"		0.115		10-142		7.75	30	
Atrazine	0.583	0.0917	"		ND		19-115		15.2	30	
Benzaldehyde	0.461	0.0917	"		ND		10-125		17.3	30	
Benzo(a)anthracene	0.993	0.0917	"		0.443		10-158		7.73	30	
Benzo(a)pyrene	0.907	0.0917	"		0.378		10-180		7.24	30	
Benzo(b)fluoranthene	1.04	0.0917	"		0.521		10-200		7.70	30	
Benzo(g,h,i)perylene	0.808	0.0917	"		0.196		10-138		5.21	30	
Benzo(k)fluoranthene	0.717	0.0917	"		0.171		10-197		10.0	30	
Benzoic acid	0.0593	0.0917	"		ND		10-166		37.2	30	Non-dir.
Benzyl alcohol	0.494	0.0917	"		ND		12-124		13.7	30	
Benzyl butyl phthalate	0.634	0.0917	"		ND		10-154		11.9	30	
Bis(2-chloroethoxy)methane	0.500	0.0917	"		ND		10-132		14.3	30	
Bis(2-chloroethyl)ether	0.496	0.0917	"		ND		10-119		11.2	30	
Bis(2-chloroisopropyl)ether	0.508	0.0917	"		ND		10-139		11.4	30	
Bis(2-ethylhexyl)phthalate	0.700	0.0917	"		0.140		10-167		125	30	Non-dir.
Caprolactam	0.687	0.183	"		ND		10-132		9.64	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30935 - EPA 3550C											
Matrix Spike Dup (BK30935-MSD1)	*Source sample: 23K0717-06 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
Carbazole	0.589	0.0917	mg/kg dry		ND		10-167		9.82	30	
Chrysene	0.967	0.0917	"		0.437		10-156		10.0	30	
Dibenzo(a,h)anthracene	0.567	0.0917	"		0.0584		10-137		11.4	30	
Dibenzofuran	0.525	0.0917	"		ND		10-147		9.56	30	
Diethyl phthalate	0.518	0.0917	"		ND		20-120		9.69	30	
Dimethyl phthalate	0.506	0.0917	"		ND		18-131		9.90	30	
Di-n-butyl phthalate	0.579	0.0917	"		0.0541		10-137		46.1	30	Non-dir.
Di-n-octyl phthalate	0.703	0.0917	"		ND		10-180		161	30	Non-dir.
Diphenylamine	0.574	0.183	"		ND		40-140		14.0	30	
Fluoranthene	1.32	0.0917	"		0.796		10-160		7.12	30	
Fluorene	0.551	0.0917	"		ND		10-157		7.67	30	
Hexachlorobenzene	0.565	0.0917	"		ND		10-137		4.56	30	
Hexachlorobutadiene	0.504	0.0917	"		ND		10-132		15.5	30	
Hexachlorocyclopentadiene	0.115	0.0917	"		ND		10-106		51.9	30	Non-dir.
Hexachloroethane	0.449	0.0917	"		ND		10-110		18.9	30	
Indeno(1,2,3-cd)pyrene	0.839	0.0917	"		0.257		10-144		4.11	30	
Isophorone	0.554	0.0917	"		ND		10-132		10.3	30	
Naphthalene	0.509	0.0917	"		ND		10-141		16.9	30	
Nitrobenzene	0.501	0.0917	"		ND		10-131		14.6	30	
N-Nitrosodimethylamine	0.448	0.0917	"		ND		10-126		13.3	30	
N-nitroso-di-n-propylamine	0.479	0.0917	"		ND		10-125		15.6	30	
N-Nitrosodiphenylamine	0.578	0.0917	"		ND		10-177		10.1	30	
Pentachlorophenol	0.554	0.0917	"		ND		10-153		11.4	30	
Phenanthrene	0.804	0.0917	"		0.413		10-148		16.1	30	
Phenol	0.539	0.0917	"		ND		10-126		11.2	30	
Pyrene	1.32	0.0917	"		0.970		10-165		9.29	30	
Surrogate: SURR: 2-Fluorophenol	*1.04*		"	*1.83*		*57.0*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.02*		"	*1.83*		*55.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.504*		"	*0.916*		*55.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.469*		"	*0.916*		*51.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.09*		"	*1.83*		*59.6*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.544*		"	*0.916*		*59.4*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30878 - EPA 3550C											
Blank (BK30878-BLK1)									Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,4-Dioxane	ND	0.0198	mg/kg								
Surrogate: 1,4-Dioxane-d8	*0.211*		*"*	*0.495*		*42.6*	*39-127.5*				
LCS (BK30878-BS1)									Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,4-Dioxane	0.504	0.0198	mg/kg	0.495		102	40-130				
Surrogate: 1,4-Dioxane-d8	*0.198*		*"*	*0.495*		*40.0*	*39-127.5*				
Matrix Spike (BK30878-MS1)	*Source sample: 23K0580-05 (23SP8 (0-2.5ft))								Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,4-Dioxane	0.496	0.0198	mg/kg	0.495	ND	100	40-130				
Surrogate: 1,4-Dioxane-d8	*0.203*		*"*	*0.495*		*41.0*	*40-130*				
Matrix Spike Dup (BK30878-MSD1)	*Source sample: 23K0580-05 (23SP8 (0-2.5ft))								Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,4-Dioxane	0.497	0.0198	mg/kg	0.495	ND	100	40-130		0.199	30	
Surrogate: 1,4-Dioxane-d8	*0.200*		*"*	*0.495*		*40.3*	*40-130*				
Batch BK30961 - EPA 3550C											
Blank (BK30961-BLK1)									Prepared & Analyzed: 11/15/2023		
1,4-Dioxane	ND	0.0198	mg/kg								
Surrogate: 1,4-Dioxane-d8	*0.361*		*"*	*0.495*		*73.0*	*39-127.5*				
LCS (BK30961-BS1)									Prepared & Analyzed: 11/15/2023		
1,4-Dioxane	0.526	0.0198	mg/kg	0.495		106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.330*		*"*	*0.495*		*66.7*	*39-127.5*				
Matrix Spike (BK30961-MS1)	*Source sample: 23K0702-01 (Matrix Spike)								Prepared & Analyzed: 11/15/2023		
1,4-Dioxane	0.524	0.0198	mg/kg	0.495	ND	106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.319*		*"*	*0.495*		*64.4*	*40-130*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30961 - EPA 3550C											
Matrix Spike (BK30961-MS2)	*Source sample: 23K0704-05 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495	ND	106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.362*		"	*0.495*		*73.1*	*40-130*				
Matrix Spike Dup (BK30961-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495	ND	106	40-130		0.377	30	
Surrogate: 1,4-Dioxane-d8	*0.323*		"	*0.495*		*65.2*	*40-130*				
Matrix Spike Dup (BK30961-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.542	0.0198	mg/kg	0.495	ND	109	40-130		2.97	30	
Surrogate: 1,4-Dioxane-d8	*0.251*		"	*0.495*		*50.7*	*40-130*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
Blank (BK30905-BLK1)											Prepared: 11/14/2023 Analyzed: 11/15/2023
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	3.64	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*32.2*		"	*46.6*		*69.2*	*25-150*				
Surrogate: M5PFHxA	*40.6*		"	*50.0*		*81.1*	*25-150*				
Surrogate: M4PFHpA	*66.4*		"	*50.0*		*133*	*25-150*				
Surrogate: M3PFHxS	*60.4*		"	*47.4*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*50.9*		"	*50.0*		*102*	*25-150*				
Surrogate: M6PFDA	*28.6*		"	*25.0*		*114*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
Blank (BK30905-BLK1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Surrogate: M7PFUdA	*34.2*		*ng/L*	*25.0*		*137*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*31.5*		*"*	*25.0*		*126*	*25-150*				
Surrogate: M2PFTeDA	*25.2*		*"*	*25.0*		*101*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.87*		*"*	*200*		*0.937*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*48.1*		*"*	*47.9*		*100*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*24.8*		*"*	*100*		*24.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*56.5*		*"*	*50.0*		*113*	*10-150*				
Surrogate: d3-N-MeFOSAA	*100*		*"*	*100*		*100*	*25-150*				
Surrogate: d5-N-EtFOSAA	*120*		*"*	*100*		*120*	*25-150*				
Surrogate: M2-6:2 FTS	*36.7*		*"*	*95.1*		*38.6*	*25-200*				
Surrogate: M2-8:2 FTS	*42.6*		*"*	*96.0*		*44.4*	*25-200*				
Surrogate: M9PFNA	*29.7*		*"*	*25.0*		*119*	*25-150*				
Surrogate: M2-4:2 FTS	*28.6*		*"*	*93.8*		*30.5*	*25-150*				
Surrogate: d-N-MeFOSA	*46.7*		*"*	*50.0*		*93.5*	*25-150*				
Surrogate: d-N-EtFOSA	*64.9*		*"*	*50.0*		*130*	*25-150*				
Surrogate: M3HFPO-DA	*141*		*"*	*200*		*70.5*	*25-150*				
Surrogate: d9-N-EtFOSE	*1020*		*"*	*500*		*205*	*25-150*				
Surrogate: d7-N-MeFOSE	*1030*		*"*	*500*		*205*	*25-150*				
LCS (BK30905-BS1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Perfluorobutanesulfonic acid (PFBS)	89.0	3.54	ng/L	70.8		126	50-150				
Perfluorohexanoic acid (PFHxA)	82.4	4.00	"	80.0		103	50-150				
Perfluoroheptanoic acid (PFHpA)	70.2	4.00	"	80.0		87.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	81.3	3.66	"	73.2		111	50-150				
Perfluorooctanoic acid (PFOA)	96.3	4.00	"	80.0		120	50-150				
Perfluorooctanesulfonic acid (PFOS)	23.5	3.72	"	74.4		31.6	50-150	Low Bias			
Perfluorononanoic acid (PFNA)	88.7	4.00	"	80.0		111	50-150				
Perfluorodecanoic acid (PFDA)	80.5	4.00	"	80.0		101	50-150				
Perfluoroundecanoic acid (PFUnA)	97.2	4.00	"	80.0		122	50-150				
Perfluorododecanoic acid (PFDoA)	94.5	4.00	"	80.0		118	50-150				
Perfluorotridecanoic acid (PFTrDA)	122	4.00	"	80.0		153	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	100	4.00	"	80.0		125	50-150				
N-MeFOSAA	108	4.00	"	80.0		135	50-150				
N-EtFOSAA	91.8	4.00	"	80.0		115	50-150				
Perfluoropentanoic acid (PFPeA)	171	8.00	"	160		107	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	96.8	4.00	"	80.0		121	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	88.5	3.82	"	76.4		116	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	118	3.86	"	77.2		153	50-150	High Bias			
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	373	15.2	"	304		123	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	381	15.4	"	307		124	50-150				
Perfluoro-n-butanoic acid (PFBA)	79.6	16.0	"	320		24.9	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	116	7.12	"	142		81.8	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	106	8.00	"	160		66.0	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	11.5	8.00	"	160		7.17	50-150	Low Bias			

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
LCS (BK30905-BS1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Perfluoro-5-oxahexanoic acid (PFMBA)	497	8.00	ng/L	160		311	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	65.9	3.76	"	75.2		87.7	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	310	15.0	"	300		103	50-150				
HFPO-DA (Gen-X)	149	16.0	"	160		93.1	50-150				
11CL-PF3OUdS	324	15.1	"	151		214	50-150	High Bias			
9CL-PF3ONS	288	15.0	"	150		192	50-150	High Bias			
ADONA	324	15.1	"	151		214	50-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	86.9	3.88	"	77.6		112	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	106	3.84	"	76.8		138	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	115	10.0	"	320		35.9	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	1730	50.0	"	1600		108	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	2180	50.0	"	1600		137	50-150				
N-MeFOSE	829	40.0	"	800		104	50-150				
N-MeFOSA	69.9	4.00	"	80.0		87.4	50-150				
N-EtFOSE	840	40.0	"	800		105	50-150				
N-EtFOSA	67.2	4.00	"	80.0		84.0	50-150				
Surrogate: M3PFBS	*16.9*		"	*46.6*		*36.3*	*25-150*				
Surrogate: M5PFHxA	*22.5*		"	*50.0*		*45.1*	*25-150*				
Surrogate: M4PFHpA	*43.1*		"	*50.0*		*86.1*	*25-150*				
Surrogate: M3PFHxS	*49.3*		"	*47.4*		*104*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*40.4*		"	*50.0*		*80.8*	*25-150*				
Surrogate: M6PFDA	*25.1*		"	*25.0*		*100*	*25-150*				
Surrogate: M7PFUdA	*26.8*		"	*25.0*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*25.5*		"	*25.0*		*102*	*25-150*				
Surrogate: M2PFTeDA	*16.8*		"	*25.0*		*67.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.09*		"	*200*		*0.543*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*41.0*		"	*47.9*		*85.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.36*		"	*100*		*4.36*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*39.7*		"	*50.0*		*79.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*64.1*		"	*100*		*64.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*75.4*		"	*100*		*75.4*	*25-150*				
Surrogate: M2-6:2 FTS	*36.1*		"	*95.1*		*38.0*	*25-200*				
Surrogate: M2-8:2 FTS	*33.8*		"	*96.0*		*35.3*	*25-200*				
Surrogate: M9PFNA	*23.5*		"	*25.0*		*94.0*	*25-150*				
Surrogate: M2-4:2 FTS	*21.0*		"	*93.8*		*22.4*	*25-150*				
Surrogate: d-N-MeFOSA	*29.4*		"	*50.0*		*58.8*	*25-150*				
Surrogate: d-N-EtFOSA	*32.4*		"	*50.0*		*64.7*	*25-150*				
Surrogate: M3HFPO-DA	*70.6*		"	*200*		*35.3*	*25-150*				
Surrogate: d9-N-EtFOSE	*452*		"	*500*		*90.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*543*		"	*500*		*109*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
LCS (BK30905-BS2)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Perfluorobutanesulfonic acid (PFBS)	16.9	3.54	ng/L	14.2		120	50-150				
Perfluorohexanoic acid (PFHxA)	15.3	4.00	"	16.0		95.5	50-150				
Perfluoroheptanoic acid (PFHpA)	13.6	4.00	"	16.0		84.9	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.25	3.66	"	14.6		22.2	50-150	Low Bias			
Perfluorooctanoic acid (PFOA)	19.4	4.00	"	16.0		122	50-150				
Perfluorooctanesulfonic acid (PFOS)	5.15	3.72	"	14.9		34.6	50-150	Low Bias			
Perfluorononanoic acid (PFNA)	17.1	4.00	"	16.0		107	50-150				
Perfluorodecanoic acid (PFDA)	14.8	4.00	"	16.0		92.3	50-150				
Perfluoroundecanoic acid (PFUnA)	18.0	4.00	"	16.0		112	50-150				
Perfluorododecanoic acid (PFDoA)	18.9	4.00	"	16.0		118	50-150				
Perfluorotridecanoic acid (PFTrDA)	22.8	4.00	"	16.0		143	50-150				
Perfluorotetradecanoic acid (PFTA)	15.7	4.00	"	16.0		98.3	50-150				
N-MeFOSAA	18.1	4.00	"	16.0		113	50-150				
N-EtFOSAA	17.7	4.00	"	16.0		111	50-150				
Perfluoropentanoic acid (PFPeA)	34.4	8.00	"	32.0		107	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	21.8	4.00	"	16.0		136	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	17.5	3.82	"	15.3		114	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	21.5	3.86	"	15.4		139	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	72.0	15.2	"	60.8		118	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	66.4	15.4	"	61.4		108	50-150				
Perfluoro-n-butanoic acid (PFBA)	24.3	16.0	"	64.0		37.9	50-150	Low Bias			
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	22.4	7.12	"	28.5		78.7	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	19.8	8.00	"	32.0		61.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.88	8.00	"	32.0		5.89	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	72.4	8.00	"	32.0		226	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	14.2	3.76	"	15.0		94.7	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	70.5	15.0	"	60.0		118	50-150				
HFPO-DA (Gen-X)	31.3	16.0	"	32.0		97.9	50-150				
11CL-PF3OUdS	56.2	15.1	"	30.2		186	50-150	High Bias			
9CL-PF3ONS	50.2	15.0	"	29.9		168	50-150	High Bias			
ADONA	63.5	15.1	"	30.2		210	50-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	18.0	3.88	"	15.5		116	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	19.7	3.84	"	15.4		128	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	16.9	10.0	"	64.0		26.4	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	281	50.0	"	320		87.8	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	353	50.0	"	320		110	50-150				
N-MeFOSE	177	40.0	"	160		110	50-150				
N-MeFOSA	17.2	4.00	"	16.0		108	50-150				
N-EtFOSE	156	40.0	"	160		97.8	50-150				
N-EtFOSA	9.93	4.00	"	16.0		62.1	50-150				
Surrogate: M3PFBS	*24.1*		"	*46.6*		*51.8*	*25-150*				
Surrogate: M5PFHxA	*29.2*		"	*50.0*		*58.5*	*25-150*				
Surrogate: M4PFHpA	*48.8*		"	*50.0*		*97.6*	*25-150*				
Surrogate: M3PFHxS	*58.0*		"	*47.4*		*122*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*43.9*		"	*50.0*		*87.7*	*25-150*				
Surrogate: M6PFDA	*28.7*		"	*25.0*		*115*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

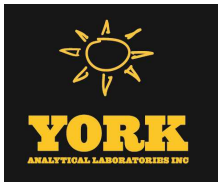
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
LCS (BK30905-BS2)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Surrogate: M7PFUdA	*26.8*		*ng/L*	*25.0*		*107*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*24.7*		*"*	*25.0*		*99.0*	*25-150*				
Surrogate: M2PFTeDA	*18.2*		*"*	*25.0*		*72.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.28*		*"*	*200*		*0.638*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*42.9*		*"*	*47.9*		*89.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*10.4*		*"*	*100*		*10.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*36.2*		*"*	*50.0*		*72.4*	*10-150*				
Surrogate: d3-N-MeFOSAA	*73.9*		*"*	*100*		*73.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*73.6*		*"*	*100*		*73.7*	*25-150*				
Surrogate: M2-6:2 FTS	*35.5*		*"*	*95.1*		*37.3*	*25-200*				
Surrogate: M2-8:2 FTS	*32.9*		*"*	*96.0*		*34.2*	*25-200*				
Surrogate: M9PFNA	*25.5*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M2-4:2 FTS	*22.1*		*"*	*93.8*		*23.6*	*25-150*				
Surrogate: d-N-MeFOSA	*26.3*		*"*	*50.0*		*52.6*	*25-150*				
Surrogate: d-N-EtFOSA	*43.4*		*"*	*50.0*		*86.9*	*25-150*				
Surrogate: M3HFPO-DA	*81.3*		*"*	*200*		*40.6*	*25-150*				
Surrogate: d9-N-EtFOSE	*453*		*"*	*500*		*90.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*536*		*"*	*500*		*107*	*25-150*				
Matrix Spike (BK30905-MS1)	*Source sample: 23K0422-05 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/15/2023			
Perfluorobutanesulfonic acid (PFBS)	40.8	1.77	ng/L	35.4	1.83	110	25-150				
Perfluorohexanoic acid (PFHxA)	42.2	2.00	"	40.0	4.78	93.6	25-150				
Perfluoroheptanoic acid (PFHpA)	38.1	2.00	"	40.0	2.55	88.8	25-150				
Perfluorohexanesulfonic acid (PFHxS)	46.3	1.83	"	36.6	13.5	89.7	25-150				
Perfluorooctanoic acid (PFOA)	50.9	2.00	"	40.0	5.17	114	25-150				
Perfluorooctanesulfonic acid (PFOS)	52.4	1.86	"	37.2	13.6	104	25-150				
Perfluorononanoic acid (PFNA)	38.8	2.00	"	40.0	1.24	93.9	25-150				
Perfluorodecanoic acid (PFDA)	35.5	2.00	"	40.0	ND	88.7	25-150				
Perfluoroundecanoic acid (PFUnA)	45.2	2.00	"	40.0	ND	113	25-150				
Perfluorododecanoic acid (PFDoA)	42.9	2.00	"	40.0	ND	107	25-150				
Perfluorotridecanoic acid (PFTrDA)	43.8	2.00	"	40.0	ND	110	25-150				
Perfluorotetradecanoic acid (PFTA)	42.4	2.00	"	40.0	ND	106	25-150				
N-MeFOSAA	47.4	2.00	"	40.0	ND	119	25-150				
N-EtFOSAA	43.7	2.00	"	40.0	ND	109	25-150				
Perfluoropentanoic acid (PFPeA)	82.2	4.00	"	80.0	4.11	97.6	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	48.3	2.00	"	40.0	ND	121	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	45.7	1.91	"	38.2	ND	120	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	35.8	1.93	"	38.6	ND	92.8	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	160	7.60	"	152	ND	105	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	174	7.68	"	154	ND	113	25-150				
Perfluoro-n-butanoic acid (PFBA)	146	8.00	"	160	2.75	89.8	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	64.1	3.56	"	71.2	ND	90.1	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	69.6	4.00	"	80.0	ND	87.0	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	14.6	4.00	"	80.0	ND	18.3	25-150	Low Bias			

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
Matrix Spike (BK30905-MS1)	*Source sample: 23K0422-05 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/15/2023			
Perfluoro-5-oxahexanoic acid (PFMBA)	109	4.00	ng/L	80.0	ND	136	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	42.2	1.88	"	37.6	2.34	106	25-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	139	7.50	"	150	ND	92.9	25-150				
HFPO-DA (Gen-X)	67.1	8.00	"	80.0	ND	83.9	25-150				
11CL-PF3OUdS	77.7	7.56	"	75.6	ND	103	25-150				
9CL-PF3ONS	79.2	7.48	"	74.8	ND	106	25-150				
ADONA	117	7.56	"	75.6	ND	155	25-150	High Bias			
Perfluorododecanesulfonic acid (PFDoS)	42.4	1.94	"	38.8	ND	109	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	46.5	1.92	"	38.4	ND	121	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	55.4	5.00	"	160	ND	34.6	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	391	25.0	"	800	ND	48.8	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	405	25.0	"	800	ND	50.7	25-150				
N-MeFOSE	372	20.0	"	400	ND	93.0	25-150				
N-MeFOSA	35.1	2.00	"	40.0	ND	87.6	25-150				
N-EtFOSE	363	20.0	"	400	ND	90.7	25-150				
N-EtFOSA	28.7	2.00	"	40.0	ND	71.7	25-150				
Surrogate: M3PFBS	*25.4*		"	*23.3*		*109*	*25-150*				
Surrogate: M5PFHxA	*23.3*		"	*25.0*		*93.1*	*25-150*				
Surrogate: M4PFHpA	*24.9*		"	*25.0*		*99.4*	*25-150*				
Surrogate: M3PFHxS	*25.3*		"	*23.7*		*107*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*20.6*		"	*25.0*		*82.5*	*25-150*				
Surrogate: M6PFDA	*11.4*		"	*12.5*		*91.0*	*25-150*				
Surrogate: M7PFUdA	*10.1*		"	*12.5*		*81.1*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*9.05*		"	*12.5*		*72.4*	*25-150*				
Surrogate: M2PFTeDA	*7.85*		"	*12.5*		*62.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*6.13*		"	*100*		*6.13*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*18.9*		"	*24.0*		*79.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.6*		"	*50.0*		*57.2*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*14.8*		"	*25.0*		*59.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*28.1*		"	*50.0*		*56.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*26.8*		"	*50.0*		*53.7*	*25-150*				
Surrogate: M2-6:2 FTS	*16.1*		"	*47.6*		*33.9*	*25-200*				
Surrogate: M2-8:2 FTS	*13.2*		"	*48.0*		*27.6*	*25-200*				
Surrogate: M9PFNA	*10.4*		"	*12.5*		*83.5*	*25-150*				
Surrogate: M2-4:2 FTS	*26.4*		"	*46.9*		*56.3*	*25-150*				
Surrogate: d-N-MeFOSA	*7.65*		"	*25.0*		*30.6*	*25-150*				
Surrogate: d-N-EtFOSA	*10.9*		"	*25.0*		*43.4*	*25-150*				
Surrogate: M3HFPO-DA	*50.9*		"	*100*		*50.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*243*		"	*250*		*97.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*252*		"	*250*		*101*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
Matrix Spike Dup (BK30905-MSD1)	*Source sample: 23K0422-05 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
Perfluorobutanesulfonic acid (PFBS)	43.8	1.77	ng/L	35.4	1.83	119	25-150		7.07	35	
Perfluorohexanoic acid (PFHxA)	46.0	2.00	"	40.0	4.78	103	25-150		8.60	35	
Perfluoroheptanoic acid (PFHpA)	37.2	2.00	"	40.0	2.55	86.7	25-150		2.24	35	
Perfluorohexanesulfonic acid (PFHxS)	53.5	1.83	"	36.6	13.5	109	25-150		14.4	35	
Perfluorooctanoic acid (PFOA)	54.9	2.00	"	40.0	5.17	124	25-150		7.42	35	
Perfluorooctanesulfonic acid (PFOS)	53.2	1.86	"	37.2	13.6	106	25-150		1.54	35	
Perfluorononanoic acid (PFNA)	43.8	2.00	"	40.0	1.24	106	25-150		12.0	35	
Perfluorodecanoic acid (PFDA)	48.3	2.00	"	40.0	ND	121	25-150		30.6	35	
Perfluoroundecanoic acid (PFUnA)	46.5	2.00	"	40.0	ND	116	25-150		2.85	35	
Perfluorododecanoic acid (PFDoA)	51.3	2.00	"	40.0	ND	128	25-150		17.9	35	
Perfluorotridecanoic acid (PFTrDA)	56.0	2.00	"	40.0	ND	140	25-150		24.4	35	
Perfluorotetradecanoic acid (PFTA)	44.9	2.00	"	40.0	ND	112	25-150		5.78	35	
N-MeFOSAA	51.8	2.00	"	40.0	ND	129	25-150		8.75	35	
N-EtFOSAA	50.0	2.00	"	40.0	ND	125	25-150		13.5	35	
Perfluoropentanoic acid (PFPeA)	87.7	4.00	"	80.0	4.11	105	25-150		6.54	35	
Perfluoro-1-octanesulfonamide (FOSA)	52.1	2.00	"	40.0	ND	130	25-150		7.72	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	46.1	1.91	"	38.2	ND	121	25-150		0.913	35	
Perfluoro-1-decanesulfonic acid (PFDS)	46.8	1.93	"	38.6	ND	121	25-150		26.5	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	186	7.60	"	152	ND	123	25-150		15.3	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	168	7.68	"	154	ND	109	25-150		3.32	35	
Perfluoro-n-butanoic acid (PFBA)	166	8.00	"	160	2.75	102	25-150		12.5	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	68.8	3.56	"	71.2	ND	96.6	25-150		7.02	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	61.0	4.00	"	80.0	ND	76.3	25-150		13.2	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	22.7	4.00	"	80.0	ND	28.4	25-150		43.3	30	Non-dir.
Perfluoro-5-oxahexanoic acid (PFMBA)	94.8	4.00	"	80.0	ND	119	25-150		13.8	30	
Perfluoro-1-pentanesulfonate (PFPeS)	48.3	1.88	"	37.6	2.34	122	25-150		13.4	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	161	7.50	"	150	ND	107	25-150		14.2	30	
HFPO-DA (Gen-X)	71.5	8.00	"	80.0	ND	89.3	25-150		6.23	30	
11CL-PF3OUdS	65.2	7.56	"	75.6	ND	86.2	25-150		17.5	30	
9CL-PF3ONS	74.8	7.48	"	74.8	ND	100	25-150		5.71	30	
ADONA	112	7.56	"	75.6	ND	148	25-150		4.16	30	
Perfluorododecanesulfonic acid (PFDoS)	35.6	1.94	"	38.8	ND	91.9	25-150		17.4	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	52.6	1.92	"	38.4	ND	137	25-150		12.3	30	
3-Perfluoropropyl propanoic acid (FPrPA)	64.1	5.00	"	160	ND	40.1	25-150		14.5	30	
3-Perfluoropentyl propanoic acid (FPePA)	414	25.0	"	800	ND	51.7	25-150		5.80	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	420	25.0	"	800	ND	52.5	25-150		3.54	30	
N-MeFOSE	405	20.0	"	400	ND	101	25-150		8.38	30	
N-MeFOSA	42.9	2.00	"	40.0	ND	107	25-150		20.2	30	
N-EtFOSE	378	20.0	"	400	ND	94.5	25-150		4.10	30	
N-EtFOSA	20.1	2.00	"	40.0	ND	50.1	25-150		35.4	30	Non-dir.
Surrogate: M3PFBS	*31.5*		"	*23.3*		*135*	*25-150*				
Surrogate: M5PFHxA	*27.4*		"	*25.0*		*110*	*25-150*				
Surrogate: M4PFHpA	*28.8*		"	*25.0*		*115*	*25-150*				
Surrogate: M3PFHxS	*29.6*		"	*23.7*		*125*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*23.8*		"	*25.0*		*95.3*	*25-150*				
Surrogate: M6PFDA	*12.3*		"	*12.5*		*98.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30905 - EPA 1633 Prep											
Matrix Spike Dup (BK30905-MSD1)	*Source sample: 23K0422-05 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
Surrogate: M7PFUdA	*12.2*		*ng/L*	*12.5*		*97.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*8.60*		*"*	*12.5*		*68.8*	*25-150*				
Surrogate: M2PFTeDA	*6.62*		*"*	*12.5*		*52.9*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*8.89*		*"*	*100*		*8.89*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*23.6*		*"*	*24.0*		*98.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*48.0*		*"*	*50.0*		*96.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*18.7*		*"*	*25.0*		*74.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*34.4*		*"*	*50.0*		*68.8*	*25-150*				
Surrogate: d5-N-EtFOSAA	*32.9*		*"*	*50.0*		*65.9*	*25-150*				
Surrogate: M2-6:2 FTS	*18.4*		*"*	*47.6*		*38.7*	*25-200*				
Surrogate: M2-8:2 FTS	*16.9*		*"*	*48.0*		*35.2*	*25-200*				
Surrogate: M9PFNA	*13.0*		*"*	*12.5*		*104*	*25-150*				
Surrogate: M2-4:2 FTS	*31.6*		*"*	*46.9*		*67.5*	*25-150*				
Surrogate: d-N-MeFOSA	*6.43*		*"*	*25.0*		*25.7*	*25-150*				
Surrogate: d-N-EtFOSA	*6.18*		*"*	*25.0*		*24.7*	*25-150*				
Surrogate: M3HFPO-DA	*67.9*		*"*	*100*		*67.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*244*		*"*	*250*		*97.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*234*		*"*	*250*		*93.8*	*25-150*				
Batch BK30911 - EPA 1633 Prep											
Blank (BK30911-BLK1)									Prepared: 11/14/2023 Analyzed: 11/16/2023		
Perfluorobutanesulfonic acid (PFBS)	ND	0.176	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.198	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.198	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.182	"								
Perfluorooctanoic acid (PFOA)	ND	0.198	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.185	"								
Perfluorononanoic acid (PFNA)	ND	0.198	"								
Perfluorodecanoic acid (PFDA)	ND	0.198	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.198	"								
Perfluorododecanoic acid (PFDoA)	ND	0.198	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.198	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.198	"								
N-MeFOSAA	ND	0.198	"								
N-EtFOSAA	ND	0.198	"								
Perfluoropentanoic acid (PFPeA)	ND	0.397	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.198	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.198	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.191	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.754	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.762	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.794	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.353	"								

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30911 - EPA 1633 Prep											
Blank (BK30911-BLK1)											Prepared: 11/14/2023 Analyzed: 11/16/2023
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.397	ug/kg wet								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.397	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.397	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.187	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.744	"								
HFPO-DA (Gen-X)	ND	0.794	"								
11CL-PF3OUdS	ND	0.750	"								
9CL-PF3ONS	ND	0.742	"								
ADONA	ND	0.750	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.192	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.190	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.992	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.96	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.96	"								
N-MeFOSE	ND	1.98	"								
N-MeFOSA	ND	0.198	"								
N-EtFOSE	ND	1.98	"								
N-EtFOSA	ND	0.198	"								
Surrogate: M3PFBS	*2.61*		"	*1.92*		*135*	*25-150*				
Surrogate: M5PFHxA	*2.72*		"	*2.07*		*132*	*25-150*				
Surrogate: M4PFHpA	*2.98*		"	*2.07*		*144*	*25-150*				
Surrogate: M3PFHxS	*2.51*		"	*1.96*		*128*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.98*		"	*2.07*		*95.7*	*25-150*				
Surrogate: M6PFDA	*0.862*		"	*1.03*		*83.5*	*25-150*				
Surrogate: M7PFUdA	*0.673*		"	*1.03*		*65.2*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.616*		"	*1.03*		*59.7*	*25-150*				
Surrogate: M2PFTeDA	*0.500*		"	*1.03*		*48.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*10.3*		"	*8.28*		*125*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*0.938*		"	*1.98*		*47.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.24*		"	*4.13*		*151*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.01*		"	*2.07*		*49.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.43*		"	*4.13*		*34.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.53*		"	*4.13*		*36.9*	*25-150*				
Surrogate: M2-6:2 FTS	*2.08*		"	*3.93*		*53.0*	*25-200*				
Surrogate: M2-8:2 FTS	*1.18*		"	*3.97*		*29.8*	*25-200*				
Surrogate: M9PFNA	*0.813*		"	*1.03*		*78.8*	*25-150*				
Surrogate: M2-4:2 FTS	*2.97*		"	*3.88*		*76.6*	*25-150*				
Surrogate: d-N-MeFOSA	*0.912*		"	*2.07*		*44.1*	*25-150*				
Surrogate: d-N-EtFOSA	*1.36*		"	*2.07*		*65.9*	*25-150*				
Surrogate: M3HFPO-DA	*12.8*		"	*8.28*		*155*	*25-150*				
Surrogate: d9-N-EtFOSE	*4.79*		"	*20.7*		*23.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*6.83*		"	*20.7*		*33.0*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30911 - EPA 1633 Prep											
LCS (BK30911-BS1)								Prepared: 11/14/2023 Analyzed: 11/16/2023			
Perfluorobutanesulfonic acid (PFBS)	3.73	0.174	ug/kg wet	3.48		107	50-150				
Perfluorohexanoic acid (PFHxA)	3.71	0.196	"	3.93		94.4	50-150				
Perfluoroheptanoic acid (PFHpA)	3.20	0.196	"	3.93		81.4	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.70	0.180	"	3.60		103	50-150				
Perfluorooctanoic acid (PFOA)	3.98	0.196	"	3.93		101	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.83	0.183	"	3.65		105	50-150				
Perfluorononanoic acid (PFNA)	3.54	0.196	"	3.93		90.2	50-150				
Perfluorodecanoic acid (PFDA)	3.63	0.196	"	3.93		92.5	50-150				
Perfluoroundecanoic acid (PFUnA)	4.50	0.196	"	3.93		115	50-150				
Perfluorododecanoic acid (PFDoA)	3.89	0.196	"	3.93		99.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.03	0.196	"	3.93		103	50-150				
Perfluorotetradecanoic acid (PFTA)	4.00	0.196	"	3.93		102	50-150				
N-MeFOSAA	4.65	0.196	"	3.93		118	50-150				
N-EtFOSAA	4.35	0.196	"	3.93		111	50-150				
Perfluoropentanoic acid (PFPeA)	7.66	0.393	"	7.86		97.4	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.59	0.196	"	3.93		117	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.04	0.196	"	3.75		134	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.84	0.190	"	3.79		101	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	17.6	0.747	"	14.9		118	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.6	0.754	"	15.1		110	50-150				
Perfluoro-n-butanoic acid (PFBA)	15.6	0.786	"	15.7		99.3	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.40	0.350	"	6.99		91.5	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.35	0.393	"	7.86		80.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	7.37	0.393	"	7.86		93.8	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	7.22	0.393	"	7.86		91.9	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	3.97	0.185	"	3.69		107	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.8	0.737	"	14.7		100	50-150				
HFPO-DA (Gen-X)	5.38	0.786	"	7.86		68.4	50-150				
11CL-PF3OUdS	3.06	0.743	"	7.43		41.2	50-150	Low Bias			
9CL-PF3ONS	3.76	0.735	"	7.35		51.2	50-150				
ADONA	5.34	0.743	"	7.43		71.9	50-150				
Perfluorododecanesulfonic acid (PFDoS)	3.40	0.191	"	3.81		89.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.16	0.189	"	3.77		110	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	16.2	0.982	"	15.7		103	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	74.6	4.91	"	78.6		94.9	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	61.7	4.91	"	78.6		78.5	50-150				
N-MeFOSE	34.5	1.96	"	39.3		87.9	50-150				
N-MeFOSA	3.57	0.196	"	3.93		90.9	50-150				
N-EtFOSE	36.6	1.96	"	39.3		93.0	50-150				
N-EtFOSA	2.72	0.196	"	3.93		69.2	50-150				
Surrogate: M3PFBS	*2.35*		*"*	*1.91*		*123*	*25-150*				
Surrogate: M5PFHxA	*2.75*		*"*	*2.05*		*134*	*25-150*				
Surrogate: M4PFHpA	*2.97*		*"*	*2.05*		*145*	*25-150*				
Surrogate: M3PFHxS	*2.42*		*"*	*1.94*		*125*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.35*		*"*	*2.05*		*115*	*25-150*				
Surrogate: M6PFDA	*1.03*		*"*	*1.02*		*101*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30911 - EPA 1633 Prep											
LCS (BK30911-BS1)								Prepared: 11/14/2023 Analyzed: 11/16/2023			
Surrogate: M7PFUdA	*0.910*		*ug/kg wet*	*1.02*		*89.0*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.910*		*"*	*1.02*		*89.1*	*25-150*				
Surrogate: M2PFTeDA	*0.769*		*"*	*1.02*		*75.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.90*		*"*	*8.20*		*121*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.45*		*"*	*1.96*		*73.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.93*		*"*	*4.09*		*145*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.42*		*"*	*2.05*		*69.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.04*		*"*	*4.09*		*50.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.10*		*"*	*4.09*		*51.2*	*25-150*				
Surrogate: M2-6:2 FTS	*2.49*		*"*	*3.89*		*64.1*	*25-200*				
Surrogate: M2-8:2 FTS	*1.61*		*"*	*3.93*		*41.0*	*25-200*				
Surrogate: M9PFNA	*1.10*		*"*	*1.02*		*107*	*25-150*				
Surrogate: M2-4:2 FTS	*3.09*		*"*	*3.84*		*80.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.28*		*"*	*2.05*		*62.7*	*25-150*				
Surrogate: d-N-EtFOSA	*1.77*		*"*	*2.05*		*86.3*	*25-150*				
Surrogate: M3HFPO-DA	*13.0*		*"*	*8.20*		*158*	*25-150*				
Surrogate: d9-N-EtFOSE	*10.4*		*"*	*20.5*		*50.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*11.7*		*"*	*20.5*		*57.0*	*25-150*				
LCS (BK30911-BS2)								Prepared: 11/14/2023 Analyzed: 11/16/2023			
Perfluorobutanesulfonic acid (PFBS)	0.771	0.177	ug/kg wet	0.707		109	50-150				
Perfluorohexanoic acid (PFHxA)	0.771	0.200	"	0.798		96.6	50-150				
Perfluoroheptanoic acid (PFHpA)	0.721	0.200	"	0.798		90.3	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.699	0.183	"	0.731		95.6	50-150				
Perfluorooctanoic acid (PFOA)	0.896	0.200	"	0.798		112	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.955	0.186	"	0.743		129	50-150				
Perfluorononanoic acid (PFNA)	0.799	0.200	"	0.798		100	50-150				
Perfluorodecanoic acid (PFDA)	0.790	0.200	"	0.798		99.0	50-150				
Perfluoroundecanoic acid (PFUnA)	0.864	0.200	"	0.798		108	50-150				
Perfluorododecanoic acid (PFDoA)	0.837	0.200	"	0.798		105	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.920	0.200	"	0.798		115	50-150				
Perfluorotetradecanoic acid (PFTA)	0.871	0.200	"	0.798		109	50-150				
N-MeFOSAA	0.944	0.200	"	0.798		118	50-150				
N-EtFOSAA	0.766	0.200	"	0.798		96.0	50-150				
Perfluoropentanoic acid (PFPeA)	1.57	0.399	"	1.60		98.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.987	0.200	"	0.798		124	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	1.27	0.200	"	0.762		166	50-150	High Bias			
Perfluoro-1-decanesulfonic acid (PFDS)	1.17	0.193	"	0.770		152	50-150	High Bias			
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.64	0.758	"	3.03		120	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.80	0.766	"	3.07		124	50-150				
Perfluoro-n-butanoic acid (PFBA)	3.14	0.798	"	3.19		98.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.32	0.355	"	1.42		92.7	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.23	0.399	"	1.60		76.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.56	0.399	"	1.60		97.9	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

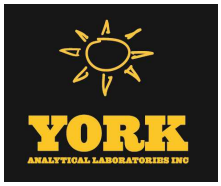
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30911 - EPA 1633 Prep											
LCS (BK30911-BS2)								Prepared: 11/14/2023 Analyzed: 11/16/2023			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.44	0.399	ug/kg wet	1.60		89.9	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	1.00	0.188	"	0.750		134	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	3.54	0.749	"	2.99		118	50-150				
HFPO-DA (Gen-X)	1.20	0.798	"	1.60		74.9	50-150				
11CL-PF3OUdS	0.375	0.754	"	1.51		24.9	50-150	Low Bias			
9CL-PF3ONS	0.442	0.747	"	1.49		29.6	50-150	Low Bias			
ADONA	0.952	0.754	"	1.51		63.1	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.883	0.194	"	0.774		114	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.964	0.192	"	0.766		126	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	3.41	0.998	"	3.19		107	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	13.4	4.99	"	16.0		84.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	7.91	4.99	"	16.0		49.5	50-150	Low Bias			
N-MeFOSE	7.54	2.00	"	7.98		94.4	50-150				
N-MeFOSA	1.01	0.200	"	0.798		126	50-150				
N-EtFOSE	7.49	2.00	"	7.98		93.8	50-150				
N-EtFOSA	0.564	0.200	"	0.798		70.6	50-150				
Surrogate: M3PFBS	*2.61*		"	*1.94*		*135*	*25-150*				
Surrogate: M5PFHxA	*2.65*		"	*2.08*		*127*	*25-150*				
Surrogate: M4PFHpA	*2.48*		"	*2.08*		*119*	*25-150*				
Surrogate: M3PFHxS	*2.09*		"	*1.97*		*106*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.58*		"	*2.08*		*75.8*	*25-150*				
Surrogate: M6PFDA	*0.601*		"	*1.04*		*57.9*	*25-150*				
Surrogate: M7PFUdA	*0.575*		"	*1.04*		*55.4*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.571*		"	*1.04*		*55.0*	*25-150*				
Surrogate: M2PFTeDA	*0.494*		"	*1.04*		*47.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*10.4*		"	*8.33*		*124*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*0.713*		"	*1.99*		*35.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.09*		"	*4.16*		*147*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*0.781*		"	*2.08*		*37.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.15*		"	*4.16*		*27.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.28*		"	*4.16*		*30.9*	*25-150*				
Surrogate: M2-6:2 FTS	*1.70*		"	*3.95*		*43.1*	*25-200*				
Surrogate: M2-8:2 FTS	*0.835*		"	*3.99*		*20.9*	*25-200*				
Surrogate: M9PFNA	*0.733*		"	*1.04*		*70.6*	*25-150*				
Surrogate: M2-4:2 FTS	*2.90*		"	*3.90*		*74.4*	*25-150*				
Surrogate: d-N-MeFOSA	*0.807*		"	*2.08*		*38.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.27*		"	*2.08*		*60.8*	*25-150*				
Surrogate: M3HFPO-DA	*11.9*		"	*8.33*		*143*	*25-150*				
Surrogate: d9-N-EtFOSE	*6.47*		"	*20.8*		*31.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*8.01*		"	*20.8*		*38.5*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30911 - EPA 1633 Prep											
Duplicate (BK30911-DUP1)	*Source sample: 23K0776-02 (Duplicate)								Prepared: 11/14/2023 Analyzed: 11/16/2023		
Perfluorobutanesulfonic acid (PFBS)	ND	0.219	ug/kg dry		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	0.247	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	0.247	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	0.226	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	0.247	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	0.230	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	0.247	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	0.247	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	0.247	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	0.247	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	0.247	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	0.247	"		ND					30	
N-MeFOSAA	ND	0.247	"		ND					30	
N-EtFOSAA	ND	0.247	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	0.494	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.247	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.247	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.238	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.938	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.948	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	0.988	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.440	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.494	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.494	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.494	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.232	"		ND					30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.926	"		ND					30	
HFPO-DA (Gen-X)	ND	0.988	"		ND					30	
11CL-PF3OUdS	ND	0.933	"		ND					30	
9CL-PF3ONS	ND	0.924	"		ND					30	
ADONA	ND	0.933	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	0.240	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.237	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.23	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	6.17	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	6.17	"		ND					30	
N-MeFOSE	ND	2.47	"		ND					30	
N-MeFOSA	ND	0.247	"		ND					30	
N-EtFOSE	ND	2.47	"		ND					30	
N-EtFOSA	ND	0.247	"		ND					30	
Surrogate: M3PFBS	*3.23*		"	*2.40*		*135*	*25-150*				
Surrogate: M5PFHxA	*3.44*		"	*2.57*		*134*	*25-150*				
Surrogate: M4PFHpA	*4.03*		"	*2.57*		*156*	*25-150*				
Surrogate: M3PFHxS	*4.07*		"	*2.44*		*167*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.05*		"	*2.57*		*118*	*25-150*				
Surrogate: M6PFDA	*1.58*		"	*1.28*		*123*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30911 - EPA 1633 Prep											
Duplicate (BK30911-DUP1)	*Source sample: 23K0776-02 (Duplicate)							Prepared: 11/14/2023 Analyzed: 11/16/2023			
Surrogate: M7PFUdA	*1.54*		*ug/kg dry*	*1.28*		*120*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.44*		*"*	*1.28*		*112*	*25-150*				
Surrogate: M2PFTeDA	*0.986*		*"*	*1.28*		*76.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*12.7*		*"*	*10.3*		*123*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.59*		*"*	*2.46*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*7.53*		*"*	*5.14*		*146*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.49*		*"*	*2.57*		*96.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.61*		*"*	*5.14*		*70.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.97*		*"*	*5.14*		*77.2*	*25-150*				
Surrogate: M2-6:2 FTS	*3.74*		*"*	*4.89*		*76.5*	*25-200*				
Surrogate: M2-8:2 FTS	*2.59*		*"*	*4.94*		*52.4*	*25-200*				
Surrogate: M9PFNA	*1.67*		*"*	*1.28*		*130*	*25-150*				
Surrogate: M2-4:2 FTS	*4.19*		*"*	*4.83*		*86.8*	*25-150*				
Surrogate: d-N-MeFOSA	*1.58*		*"*	*2.57*		*61.3*	*25-150*				
Surrogate: d-N-EtFOSA	*1.46*		*"*	*2.57*		*56.8*	*25-150*				
Surrogate: M3HFPO-DA	*15.1*		*"*	*10.3*		*146*	*25-150*				
Surrogate: d9-N-EtFOSE	*14.3*		*"*	*25.7*		*55.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*21.0*		*"*	*25.7*		*81.8*	*25-150*				
Batch BK31249 - EPA 1633 Prep											
Blank (BK31249-BLK1)								Prepared & Analyzed: 11/20/2023			
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.399	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.758	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.766	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.798	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
Blank (BK31249-BLK1)								Prepared & Analyzed: 11/20/2023			
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.399	ug/kg wet								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.399	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.399	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.749	"								
HFPO-DA (Gen-X)	ND	0.798	"								
11CL-PF3OUdS	ND	0.754	"								
9CL-PF3ONS	ND	0.747	"								
ADONA	ND	0.754	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.998	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.99	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.99	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*1.22*		"	*1.94*		*62.8*	*25-150*				
Surrogate: M5PFHxA	*1.82*		"	*2.08*		*87.3*	*25-150*				
Surrogate: M4PFHpA	*3.44*		"	*2.08*		*165*	*25-150*				
Surrogate: M3PFHxS	*2.43*		"	*1.97*		*123*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.11*		"	*2.08*		*101*	*25-150*				
Surrogate: M6PFDA	*0.927*		"	*1.04*		*89.3*	*25-150*				
Surrogate: M7PFUdA	*0.856*		"	*1.04*		*82.5*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.655*		"	*1.04*		*63.1*	*25-150*				
Surrogate: M2PFTeDA	*0.660*		"	*1.04*		*63.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.317*		"	*8.33*		*3.81*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.66*		"	*1.99*		*83.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.678*		"	*4.16*		*16.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.39*		"	*2.08*		*66.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.02*		"	*4.16*		*48.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.19*		"	*4.16*		*52.8*	*25-150*				
Surrogate: M2-6:2 FTS	*2.03*		"	*3.95*		*51.5*	*25-200*				
Surrogate: M2-8:2 FTS	*1.77*		"	*3.99*		*44.3*	*25-200*				
Surrogate: M9PFNA	*1.07*		"	*1.04*		*103*	*25-150*				
Surrogate: M2-4:2 FTS	*1.74*		"	*3.90*		*44.7*	*25-150*				
Surrogate: d-N-MeFOSA	*0.981*		"	*2.08*		*47.1*	*25-150*				
Surrogate: d-N-EtFOSA	*0.749*		"	*2.08*		*36.0*	*25-150*				
Surrogate: M3HFPO-DA	*8.24*		"	*8.33*		*98.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*10.1*		"	*20.8*		*48.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*13.1*		"	*20.8*		*63.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
LCS (BK31249-BS1)								Prepared & Analyzed: 11/20/2023			
Perfluorobutanesulfonic acid (PFBS)	3.66	0.175	ug/kg wet	3.50		104	50-150				
Perfluorohexanoic acid (PFHxA)	3.82	0.198	"	3.96		96.5	50-150				
Perfluoroheptanoic acid (PFHpA)	2.56	0.198	"	3.96		64.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.54	0.181	"	3.62		97.6	50-150				
Perfluorooctanoic acid (PFOA)	4.32	0.198	"	3.96		109	50-150				
Perfluorooctanesulfonic acid (PFOS)	4.04	0.184	"	3.68		110	50-150				
Perfluorononanoic acid (PFNA)	4.79	0.198	"	3.96		121	50-150				
Perfluorodecanoic acid (PFDA)	3.87	0.198	"	3.96		97.8	50-150				
Perfluoroundecanoic acid (PFUnA)	4.60	0.198	"	3.96		116	50-150				
Perfluorododecanoic acid (PFDoA)	4.10	0.198	"	3.96		104	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.43	0.198	"	3.96		112	50-150				
Perfluorotetradecanoic acid (PFTA)	3.67	0.198	"	3.96		92.7	50-150				
N-MeFOSAA	4.24	0.198	"	3.96		107	50-150				
N-EtFOSAA	4.01	0.198	"	3.96		101	50-150				
Perfluoropentanoic acid (PFPeA)	7.34	0.396	"	7.92		92.6	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.21	0.198	"	3.96		106	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.34	0.198	"	3.78		115	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.69	0.191	"	3.82		96.5	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	16.6	0.752	"	15.0		110	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.5	0.760	"	15.2		109	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.7	0.792	"	15.8		86.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.30	0.352	"	7.05		104	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.96	0.396	"	7.92		87.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.39	0.396	"	7.92		30.2	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	15.1	0.396	"	7.92		190	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.52	0.186	"	3.72		94.7	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	15.3	0.743	"	14.9		103	50-150				
HFPO-DA (Gen-X)	8.59	0.792	"	7.92		108	50-150				
11CL-PF3OUdS	8.30	0.749	"	7.49		111	50-150				
9CL-PF3ONS	9.49	0.741	"	7.41		128	50-150				
ADONA	10.5	0.749	"	7.49		141	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.98	0.192	"	3.84		77.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.61	0.190	"	3.80		121	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	9.97	0.990	"	15.8		63.0	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	87.3	4.95	"	79.2		110	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	98.6	4.95	"	79.2		124	50-150				
N-MeFOSE	44.0	1.98	"	39.6		111	50-150				
N-MeFOSA	3.88	0.198	"	3.96		97.9	50-150				
N-EtFOSE	38.1	1.98	"	39.6		96.3	50-150				
N-EtFOSA	3.60	0.198	"	3.96		90.9	50-150				
Surrogate: M3PFBS	*1.42*		*"*	*1.92*		*73.7*	*25-150*				
Surrogate: M5PFHxA	*2.10*		*"*	*2.06*		*102*	*25-150*				
Surrogate: M4PFHpA	*3.58*		*"*	*2.06*		*173*	*25-150*				
Surrogate: M3PFHxS	*2.53*		*"*	*1.96*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.28*		*"*	*2.06*		*110*	*25-150*				
Surrogate: M6PFDA	*1.23*		*"*	*1.03*		*120*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
LCS (BK31249-BS1)								Prepared & Analyzed: 11/20/2023			
Surrogate: M7PFUdA	*1.18*		*ug/kg wet*	*1.03*		*115*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.06*		*"*	*1.03*		*103*	*25-150*				
Surrogate: M2PFTeDA	*0.776*		*"*	*1.03*		*75.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.359*		*"*	*8.27*		*4.35*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.89*		*"*	*1.98*		*95.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.771*		*"*	*4.12*		*18.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.76*		*"*	*2.06*		*85.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.44*		*"*	*4.12*		*59.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.73*		*"*	*4.12*		*66.3*	*25-150*				
Surrogate: M2-6:2 FTS	*2.67*		*"*	*3.92*		*68.0*	*25-200*				
Surrogate: M2-8:2 FTS	*2.27*		*"*	*3.96*		*57.4*	*25-200*				
Surrogate: M9PFNA	*1.22*		*"*	*1.03*		*118*	*25-150*				
Surrogate: M2-4:2 FTS	*2.46*		*"*	*3.87*		*63.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.16*		*"*	*2.06*		*56.3*	*25-150*				
Surrogate: d-N-EtFOSA	*0.990*		*"*	*2.06*		*48.0*	*25-150*				
Surrogate: M3HFPO-DA	*8.79*		*"*	*8.27*		*106*	*25-150*				
Surrogate: d9-N-EtFOSE	*12.1*		*"*	*20.6*		*58.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.9*		*"*	*20.6*		*72.0*	*25-150*				

Semivolatile Organic Compounds by GC/MS TIC - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30881 - EPA 3550C											
Blank (BK30881-BLK1)								Prepared & Analyzed: 11/14/2023			
Tentatively Identified Compounds	0.00		mg/kg wet								
Batch BK30935 - EPA 3550C											
Blank (BK30935-BLK1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Tentatively Identified Compounds	0.00		mg/kg wet								

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30762 - EPA 3550C											
Blank (BK30762-BLK1)											Prepared: 11/12/2023 Analyzed: 11/13/2023
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*65.3*		*"*	*66.4*		*98.2*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*54.5*		*"*	*66.4*		*82.0*	*30-150*				
LCS (BK30762-BS1)											Prepared: 11/12/2023 Analyzed: 11/13/2023
4,4'-DDD	26.4	1.64	ug/kg wet	33.2		79.4	40-140				
4,4'-DDE	24.6	1.64	"	33.2		74.0	40-140				
4,4'-DDT	32.9	1.64	"	33.2		98.9	40-140				
Aldrin	25.9	1.64	"	33.2		77.9	40-140				
alpha-BHC	26.7	1.64	"	33.2		80.5	40-140				
alpha-Chlordane	26.5	1.64	"	33.2		79.9	40-140				
beta-BHC	29.3	1.64	"	33.2		88.2	40-140				
delta-BHC	25.3	1.64	"	33.2		76.3	40-140				
Dieldrin	25.3	1.64	"	33.2		76.3	40-140				
Endosulfan I	27.4	1.64	"	33.2		82.6	40-140				
Endosulfan II	26.4	1.64	"	33.2		79.3	40-140				
Endosulfan sulfate	26.7	1.64	"	33.2		80.5	40-140				
Endrin	27.9	1.64	"	33.2		84.1	40-140				
Endrin aldehyde	23.6	1.64	"	33.2		71.1	40-140				
Endrin ketone	29.1	1.64	"	33.2		87.5	40-140				
gamma-BHC (Lindane)	27.6	1.64	"	33.2		83.2	40-140				
gamma-Chlordane	26.6	1.64	"	33.2		80.0	40-140				
Heptachlor	28.3	1.64	"	33.2		85.1	40-140				
Heptachlor epoxide	26.8	1.64	"	33.2		80.6	40-140				
Methoxychlor	34.0	8.22	"	33.2		102	40-140				
Surrogate: Decachlorobiphenyl	*72.6*		*"*	*66.4*		*109*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*60.6*		*"*	*66.4*		*91.3*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30762 - EPA 3550C											
Matrix Spike (BK30762-MS1)	*Source sample: 23K0580-05 (23SP8 (0-2.5ft))								Prepared: 11/12/2023 Analyzed: 11/14/2023		
4,4'-DDD	18.0	1.81	ug/kg dry	36.6	ND	49.1	30-150				
4,4'-DDE	16.5	1.81	"	36.6	ND	45.1	30-150				
4,4'-DDT	23.0	1.81	"	36.6	ND	62.9	30-150				
Aldrin	18.2	1.81	"	36.6	ND	49.6	30-150				
alpha-BHC	19.9	1.81	"	36.6	ND	54.4	30-150				
alpha-Chlordane	18.2	1.81	"	36.6	ND	49.8	30-150				
beta-BHC	18.9	1.81	"	36.6	ND	51.8	30-150				
delta-BHC	17.0	1.81	"	36.6	ND	46.4	30-150				
Dieldrin	16.7	1.81	"	36.6	ND	45.7	30-150				
Endosulfan I	17.5	1.81	"	36.6	ND	47.9	30-150				
Endosulfan II	17.1	1.81	"	36.6	ND	46.7	30-150				
Endosulfan sulfate	17.2	1.81	"	36.6	ND	47.1	30-150				
Endrin	20.7	1.81	"	36.6	ND	56.5	30-150				
Endrin aldehyde	16.5	1.81	"	36.6	ND	45.1	30-150				
Endrin ketone	18.6	1.81	"	36.6	ND	50.8	30-150				
gamma-BHC (Lindane)	20.2	1.81	"	36.6	ND	55.2	30-150				
gamma-Chlordane	17.8	1.81	"	36.6	ND	48.7	30-150				
Heptachlor	21.0	1.81	"	36.6	ND	57.4	30-150				
Heptachlor epoxide	19.0	1.81	"	36.6	ND	51.9	30-150				
Methoxychlor	30.9	9.06	"	36.6	ND	84.5	30-150				
Surrogate: Decachlorobiphenyl	*39.9*		*"*	*73.2*		*54.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*45.9*		*"*	*73.2*		*62.6*	*30-150*				
Matrix Spike Dup (BK30762-MSD1)	*Source sample: 23K0580-05 (23SP8 (0-2.5ft))								Prepared: 11/12/2023 Analyzed: 11/14/2023		
4,4'-DDD	16.7	1.81	ug/kg dry	36.6	ND	45.7	30-150		7.09	30	
4,4'-DDE	15.1	1.81	"	36.6	ND	41.4	30-150		8.61	30	
4,4'-DDT	20.6	1.81	"	36.6	ND	56.2	30-150		11.2	30	
Aldrin	16.7	1.81	"	36.6	ND	45.7	30-150		8.17	30	
alpha-BHC	17.7	1.81	"	36.6	ND	48.2	30-150		12.0	30	
alpha-Chlordane	16.9	1.81	"	36.6	ND	46.1	30-150		7.61	30	
beta-BHC	16.2	1.81	"	36.6	ND	44.2	30-150		15.8	30	
delta-BHC	15.3	1.81	"	36.6	ND	41.9	30-150		10.3	30	
Dieldrin	15.6	1.81	"	36.6	ND	42.6	30-150		7.05	30	
Endosulfan I	16.5	1.81	"	36.6	ND	45.0	30-150		6.23	30	
Endosulfan II	15.7	1.81	"	36.6	ND	42.9	30-150		8.50	30	
Endosulfan sulfate	15.5	1.81	"	36.6	ND	42.5	30-150		10.3	30	
Endrin	18.6	1.81	"	36.6	ND	50.9	30-150		10.6	30	
Endrin aldehyde	14.6	1.81	"	36.6	ND	39.8	30-150		12.5	30	
Endrin ketone	17.0	1.81	"	36.6	ND	46.4	30-150		9.04	30	
gamma-BHC (Lindane)	18.2	1.81	"	36.6	ND	49.7	30-150		10.6	30	
gamma-Chlordane	16.7	1.81	"	36.6	ND	45.7	30-150		6.31	30	
Heptachlor	19.0	1.81	"	36.6	ND	51.8	30-150		10.2	30	
Heptachlor epoxide	18.0	1.81	"	36.6	ND	49.3	30-150		5.22	30	
Methoxychlor	29.8	9.06	"	36.6	ND	81.4	30-150		3.65	30	
Surrogate: Decachlorobiphenyl	*37.6*		*"*	*73.2*		*51.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*42.8*		*"*	*73.2*		*58.5*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30763 - EPA 3550C											
Blank (BK30763-BLK1)											Prepared: 11/13/2023 Analyzed: 11/15/2023
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*68.8*		*"*	*66.4*		*104*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*58.1*		*"*	*66.4*		*87.5*	*30-150*				
LCS (BK30763-BS1)											Prepared: 11/13/2023 Analyzed: 11/15/2023
4,4'-DDD	30.1	1.64	ug/kg wet	33.2		90.7	40-140				
4,4'-DDE	28.4	1.64	"	33.2		85.5	40-140				
4,4'-DDT	31.0	1.64	"	33.2		93.2	40-140				
Aldrin	27.3	1.64	"	33.2		82.3	40-140				
alpha-BHC	26.8	1.64	"	33.2		80.8	40-140				
alpha-Chlordane	28.9	1.64	"	33.2		87.1	40-140				
beta-BHC	31.3	1.64	"	33.2		94.3	40-140				
delta-BHC	25.3	1.64	"	33.2		76.1	40-140				
Dieldrin	28.2	1.64	"	33.2		85.0	40-140				
Endosulfan I	28.8	1.64	"	33.2		86.6	40-140				
Endosulfan II	28.9	1.64	"	33.2		87.1	40-140				
Endosulfan sulfate	25.9	1.64	"	33.2		77.9	40-140				
Endrin	28.4	1.64	"	33.2		85.6	40-140				
Endrin aldehyde	27.2	1.64	"	33.2		81.8	40-140				
Endrin ketone	30.5	1.64	"	33.2		91.9	40-140				
gamma-BHC (Lindane)	27.5	1.64	"	33.2		82.9	40-140				
gamma-Chlordane	29.6	1.64	"	33.2		89.1	40-140				
Heptachlor	29.5	1.64	"	33.2		88.7	40-140				
Heptachlor epoxide	29.4	1.64	"	33.2		88.4	40-140				
Methoxychlor	35.6	8.22	"	33.2		107	40-140				
Surrogate: Decachlorobiphenyl	*68.4*		*"*	*66.4*		*103*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*57.5*		*"*	*66.4*		*86.5*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30763 - EPA 3550C											
Matrix Spike (BK30763-MS1)	*Source sample: 23K0595-08 (Matrix Spike)								Prepared: 11/13/2023 Analyzed: 11/15/2023		
4,4'-DDD	32.6	1.79	ug/kg dry	36.2	ND	89.9	30-150				
4,4'-DDE	26.4	1.79	"	36.2	ND	72.9	30-150				
4,4'-DDT	35.9	1.79	"	36.2	3.45	89.6	30-150				
Aldrin	28.1	1.79	"	36.2	ND	77.6	30-150				
alpha-BHC	45.2	1.79	"	36.2	ND	125	30-150				
alpha-Chlordane	42.9	1.79	"	36.2	5.28	104	30-150				
beta-BHC	97.8	1.79	"	36.2	ND	270	30-150	High Bias			
delta-BHC	27.7	1.79	"	36.2	ND	76.6	30-150				
Dieldrin	30.2	1.79	"	36.2	ND	83.4	30-150				
Endosulfan I	27.8	1.79	"	36.2	ND	76.9	30-150				
Endosulfan II	29.5	1.79	"	36.2	ND	81.6	30-150				
Endosulfan sulfate	22.8	1.79	"	36.2	ND	62.9	30-150				
Endrin	30.8	1.79	"	36.2	ND	85.2	30-150				
Endrin aldehyde	31.2	1.79	"	36.2	ND	86.2	30-150				
Endrin ketone	32.8	1.79	"	36.2	ND	90.5	30-150				
gamma-BHC (Lindane)	27.3	1.79	"	36.2	ND	75.4	30-150				
gamma-Chlordane	37.4	1.79	"	36.2	7.09	83.8	30-150				
Heptachlor	35.4	1.79	"	36.2	ND	97.7	30-150				
Heptachlor epoxide	28.3	1.79	"	36.2	ND	78.2	30-150				
Methoxychlor	32.3	8.96	"	36.2	ND	89.3	30-150				
Surrogate: Decachlorobiphenyl	*74.3*		*"*	*72.4*		*103*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*57.8*		*"*	*72.4*		*79.9*	*30-150*				
Matrix Spike Dup (BK30763-MSD1)	*Source sample: 23K0595-08 (Matrix Spike Dup)								Prepared: 11/13/2023 Analyzed: 11/15/2023		
4,4'-DDD	32.2	1.79	ug/kg dry	36.2	ND	89.0	30-150		1.07	30	
4,4'-DDE	27.4	1.79	"	36.2	ND	75.7	30-150		3.69	30	
4,4'-DDT	34.8	1.79	"	36.2	3.45	86.4	30-150		3.19	30	
Aldrin	29.0	1.79	"	36.2	ND	80.1	30-150		3.20	30	
alpha-BHC	32.7	1.79	"	36.2	ND	90.2	30-150		32.3	30	Non-dir.
alpha-Chlordane	41.4	1.79	"	36.2	5.28	99.7	30-150		3.68	30	
beta-BHC	59.3	1.79	"	36.2	ND	164	30-150	High Bias	49.1	30	Non-dir.
delta-BHC	28.8	1.79	"	36.2	ND	79.5	30-150		3.70	30	
Dieldrin	28.9	1.79	"	36.2	ND	79.9	30-150		4.27	30	
Endosulfan I	27.7	1.79	"	36.2	ND	76.4	30-150		0.639	30	
Endosulfan II	29.2	1.79	"	36.2	ND	80.5	30-150		1.28	30	
Endosulfan sulfate	24.3	1.79	"	36.2	ND	67.0	30-150		6.22	30	
Endrin	31.3	1.79	"	36.2	ND	86.5	30-150		1.53	30	
Endrin aldehyde	28.2	1.79	"	36.2	ND	78.0	30-150		10.1	30	
Endrin ketone	37.4	1.79	"	36.2	ND	103	30-150		13.2	30	
gamma-BHC (Lindane)	28.2	1.79	"	36.2	ND	77.9	30-150		3.27	30	
gamma-Chlordane	36.8	1.79	"	36.2	7.09	82.2	30-150		1.59	30	
Heptachlor	35.2	1.79	"	36.2	ND	97.1	30-150		0.636	30	
Heptachlor epoxide	29.5	1.79	"	36.2	ND	81.4	30-150		4.06	30	
Methoxychlor	32.9	8.96	"	36.2	ND	90.7	30-150		1.61	30	
Surrogate: Decachlorobiphenyl	*78.5*		*"*	*72.4*		*108*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*56.5*		*"*	*72.4*		*78.0*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30763 - EPA 3550C											
Blank (BK30763-BLK2)									Prepared: 11/13/2023 Analyzed: 11/15/2023		
Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								
Surrogate: Tetrachloro-m-xylene	*0.0497*		"	*0.0667*		*74.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0617*		"	*0.0667*		*92.5*	*30-140*				
LCS (BK30763-BS2)									Prepared: 11/13/2023 Analyzed: 11/15/2023		
Aroclor 1016	0.209	0.0167	mg/kg wet	0.333		62.7	40-130				
Aroclor 1260	0.243	0.0167	"	0.333		72.8	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0430*		"	*0.0667*		*64.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0547*		"	*0.0667*		*82.0*	*30-140*				
Matrix Spike (BK30763-MS2)	*Source sample: 23K0595-08 (Matrix Spike)								Prepared: 11/13/2023 Analyzed: 11/16/2023		
Aroclor 1016	0.165	0.0181	mg/kg dry	0.362	ND	45.6	40-140				
Aroclor 1260	0.227	0.0181	"	0.362	0.0185	57.6	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0424*		"	*0.0724*		*58.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0536*		"	*0.0724*		*74.0*	*30-140*				
Matrix Spike Dup (BK30763-MSD2)	*Source sample: 23K0595-08 (Matrix Spike Dup)								Prepared: 11/13/2023 Analyzed: 11/16/2023		
Aroclor 1016	0.0615	0.0181	mg/kg dry	0.362	ND	17.0	40-140	Low Bias	91.5	50	Non-dir.
Aroclor 1260	0.120	0.0181	"	0.362	0.0185	28.1	40-140	Low Bias	61.4	50	Non-dir.
Surrogate: Tetrachloro-m-xylene	*0.0279*		"	*0.0724*		*38.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0351*		"	*0.0724*		*48.5*	*30-140*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30847 - EPA 3550C											
Blank (BK30847-BLK2)								Prepared & Analyzed: 11/14/2023			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0458*		"	*0.0664*		*69.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0538*		"	*0.0664*		*81.0*	*30-140*				
LCS (BK30847-BS2)								Prepared & Analyzed: 11/14/2023			
Aroclor 1016	0.218	0.0166	mg/kg wet	0.332		65.7	40-130				
Aroclor 1260	0.249	0.0166	"	0.332		74.8	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0462*		"	*0.0664*		*69.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0565*		"	*0.0664*		*85.0*	*30-140*				
Matrix Spike (BK30847-MS2)	*Source sample: 23K0483-03 (Matrix Spike)							Prepared & Analyzed: 11/14/2023			
Aroclor 1016	0.286	0.0193	mg/kg dry	0.386	ND	74.0	40-140				
Aroclor 1260	0.332	0.0193	"	0.386	ND	86.0	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0760*		"	*0.0772*		*98.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0718*		"	*0.0772*		*93.0*	*30-140*				
Matrix Spike Dup (BK30847-MSD2)	*Source sample: 23K0483-03 (Matrix Spike Dup)							Prepared & Analyzed: 11/14/2023			
Aroclor 1016	0.273	0.0193	mg/kg dry	0.386	ND	70.6	40-140		4.65	50	
Aroclor 1260	0.307	0.0193	"	0.386	ND	79.6	40-140		7.68	50	
Surrogate: Tetrachloro-m-xylene	*0.0540*		"	*0.0772*		*70.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0644*		"	*0.0772*		*83.5*	*30-140*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30664 - EPA 3050B											
Blank (BK30664-BLK1)											Prepared: 11/09/2023 Analyzed: 11/15/2023
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	45.2	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BK30664-DUP1)	*Source sample: 23K0655-10 (Duplicate)										Prepared: 11/09/2023 Analyzed: 11/15/2023
Aluminum	10500	4.89	mg/kg dry		10300				2.48	35	
Antimony	ND	2.44	"		ND					35	
Arsenic	5.54	1.47	"		4.98				10.8	35	
Barium	46.5	2.44	"		44.6				4.10	35	
Beryllium	0.369	0.049	"		0.379				2.77	35	
Cadmium	ND	0.293	"		ND					35	
Calcium	973	4.89	"		966				0.773	35	
Chromium	13.5	0.489	"		12.7				5.82	35	
Cobalt	7.84	0.391	"		6.74				15.0	35	
Copper	21.1	1.96	"		21.1				0.0145	35	
Iron	18500	24.4	"		18200				1.87	35	
Lead	10.8	0.489	"		11.6				7.45	35	
Magnesium	3230	4.89	"		3140				2.88	35	
Manganese	203	0.489	"		146				32.4	35	
Nickel	22.8	0.974	"		21.1				7.45	35	
Potassium	1040	4.89	"		1030				1.27	35	
Selenium	6.37	2.44	"		5.94				7.12	35	
Silver	ND	0.493	"		ND					35	
Sodium	148	48.9	"		120				20.8	35	
Thallium	ND	2.44	"		ND					35	
Vanadium	14.4	0.974	"		15.2				5.26	35	
Zinc	33.0	2.44	"		31.3				5.27	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30664 - EPA 3050B											
Matrix Spike (BK30664-MS1)	*Source sample: 23K0655-10 (Matrix Spike)								Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	11200	4.89	mg/kg dry	196	10300	475	75-125	High Bias			
Antimony	5.15	2.44	"	24.4	ND	21.1	75-125	Low Bias			
Arsenic	196	1.47	"	196	4.98	97.7	75-125				
Barium	243	2.44	"	196	44.6	102	75-125				
Beryllium	5.17	0.049	"	4.89	0.379	97.9	75-125				
Cadmium	4.20	0.293	"	4.89	ND	85.8	75-125				
Calcium	1050	4.89	"	97.8	966	90.3	75-125				
Chromium	33.4	0.489	"	19.6	12.7	105	75-125				
Cobalt	55.7	0.391	"	48.9	6.74	100	75-125				
Copper	48.0	1.96	"	24.4	21.1	110	75-125				
Iron	19800	24.4	"	97.8	18200	NR	75-125	High Bias			
Lead	57.0	0.489	"	48.9	11.6	92.9	75-125				
Magnesium	3430	4.89	"	97.8	3140	299	75-125	High Bias			
Manganese	259	0.489	"	48.9	146	230	75-125	High Bias			
Nickel	71.7	0.974	"	48.9	21.1	103	75-125				
Potassium	1040	4.89	"	97.8	1030	13.8	75-125	Low Bias			
Selenium	196	2.44	"	196	5.94	97.1	75-125				
Silver	3.95	0.493	"	4.89	ND	80.7	75-125				
Sodium	482	48.9	"	97.8	120	370	75-125	High Bias			
Thallium	174	2.44	"	196	ND	88.9	75-125				
Vanadium	61.3	0.974	"	48.9	15.2	94.3	75-125				
Zinc	82.4	2.44	"	48.9	31.3	105	75-125				
Post Spike (BK30664-PS1)	*Source sample: 23K0655-10 (Post Spike)								Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	105		ug/mL	2.00	105	NR	75-125	Low Bias			
Antimony	0.195		"	0.250	-0.002	78.0	75-125				
Arsenic	1.89		"	2.00	0.051	91.9	75-125				
Barium	2.35		"	2.00	0.456	94.5	75-125				
Beryllium	0.050		"	0.0500	0.004	92.9	75-125				
Cadmium	0.041		"	0.0500	-0.004	81.2	75-125				
Calcium	10.6		"	1.00	9.88	76.7	75-125				
Chromium	0.313		"	0.200	0.130	91.4	75-125				
Cobalt	0.535		"	0.500	0.069	93.1	75-125				
Copper	0.468		"	0.250	0.216	101	75-125				
Iron	184		"	1.00	186	NR	75-125	Low Bias			
Lead	0.562		"	0.500	0.119	88.6	75-125				
Magnesium	32.8		"	1.00	32.1	66.5	75-125	Low Bias			
Manganese	1.96		"	0.500	1.50	91.8	75-125				
Nickel	0.685		"	0.500	0.216	93.8	75-125				
Potassium	11.1		"	1.00	10.5	64.2	75-125	Low Bias			
Selenium	1.89		"	2.00	0.061	91.3	75-125				
Silver	0.043		"	0.0500	-0.007	85.5	75-125				
Sodium	3.80		"	1.00	1.23	257	75-125	High Bias			
Thallium	1.69		"	2.00	0.0008	84.5	75-125				
Vanadium	0.613		"	0.500	0.155	91.6	75-125				
Zinc	0.769		"	0.500	0.320	89.8	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30664 - EPA 3050B											
Reference (BK30664-SRM1)								Prepared: 11/09/2023 Analyzed: 11/15/2023			
Aluminum	7840	4.17	mg/kg wet	9490		82.6	45.4-128.6				
Antimony	48.2	2.08	"	248		19.4	3-103.2				
Arsenic	130	1.25	"	163		79.9	68.7-100.6				
Barium	301	2.08	"	319		94.3	82.5-115.7				
Beryllium	97.5	0.042	"	119		81.9	77.7-109.2				
Cadmium	109	0.250	"	130		83.9	75.2-106.2				
Calcium	4510	4.17	"	5000		90.1	80.6-114.4				
Chromium	138	0.417	"	153		90.0	77.8-111.8				
Cobalt	137	0.333	"	153		89.7	79.1-109.8				
Copper	235	1.67	"	245		95.8	80.4-111				
Iron	7170	20.8	"	7540		95.1	69.8-144.6				
Lead	192	0.417	"	220		87.2	80-113.6				
Magnesium	1960	4.17	"	1980		99.1	85.9-129.3				
Manganese	401	0.417	"	431		93.1	79.6-114.2				
Nickel	156	0.830	"	175		89.0	76.6-108.6				
Potassium	1600	4.17	"	1570		102	80.9-131.2				
Selenium	150	2.08	"	156		96.4	80.8-118.6				
Silver	52.0	0.420	"	82.9		62.7	76.7-114.7	Low Bias			
Sodium	980	41.7	"	453		216	72.2-119.7	High Bias			
Thallium	80.7	2.08	"	99.4		81.2	75.8-110.7				
Vanadium	146	0.830	"	170		86.0	75.3-114.1				
Zinc	342	2.08	"	201		170	79.6-115.92	High Bias			
Batch BK30665 - EPA 3050B											
Blank (BK30665-BLK1)								Prepared: 11/09/2023 Analyzed: 11/14/2023			
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	5.35	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	1.13	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30665 - EPA 3050B											
Duplicate (BK30665-DUP1)	*Source sample: 23K0704-05 (Duplicate)								Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	258	8.48	mg/kg dry		199				25.9	35	
Antimony	7.34	4.24	"		10.8				38.5	35	Non-dir.
Arsenic	97.9	2.54	"		144				38.2	35	Non-dir.
Barium	96.3	4.23	"		129				28.9	35	
Beryllium	ND	0.086	"		ND					35	
Cadmium	ND	0.509	"		ND					35	
Calcium	2370	8.48	"		2090				12.6	35	
Chromium	68.8	0.849	"		91.0				27.8	35	
Cobalt	65.4	0.678	"		99.6				41.5	35	Non-dir.
Copper	347	3.39	"		593				52.3	35	Non-dir.
Iron	107000	42.4	"		159000				39.3	35	Non-dir.
Lead	83.2	0.849	"		121				36.9	35	Non-dir.
Magnesium	183	8.49	"		43.1				124	35	Non-dir.
Manganese	69.0	0.849	"		92.1				28.6	35	
Nickel	718	1.69	"		1040				36.6	35	Non-dir.
Potassium	148	8.49	"		123				17.9	35	
Selenium	42.4	4.24	"		63.7				40.0	35	Non-dir.
Silver	ND	0.855	"		ND					35	
Sodium	ND	84.8	"		ND					35	
Thallium	ND	4.24	"		ND					35	
Vanadium	121	1.69	"		152				22.3	35	
Zinc	171	4.22	"		232				30.0	35	
Matrix Spike (BK30665-MS1)	*Source sample: 23K0704-05 (Matrix Spike)								Prepared: 11/09/2023 Analyzed: 11/15/2023		
Aluminum	607	8.48	mg/kg dry	339	199	120	75-125				
Antimony	46.4	4.24	"	42.4	10.8	83.9	75-125				
Arsenic	485	2.54	"	339	144	101	75-125				
Barium	392	4.23	"	339	129	77.5	75-125				
Beryllium	8.74	0.086	"	8.48	ND	103	75-125				
Cadmium	5.75	0.509	"	8.48	ND	67.8	75-125	Low Bias			
Calcium	2340	8.48	"	170	2090	144	75-125	High Bias			
Chromium	124	0.849	"	33.9	91.0	98.2	75-125				
Cobalt	177	0.678	"	84.8	99.6	91.8	75-125				
Copper	620	3.39	"	42.4	593	63.0	75-125	Low Bias			
Iron	154000	42.4	"	170	159000	NR	75-125	Low Bias			
Lead	187	0.849	"	84.8	121	78.2	75-125				
Magnesium	240	8.49	"	170	43.1	116	75-125				
Manganese	201	0.849	"	84.8	92.1	128	75-125	High Bias			
Nickel	1080	1.69	"	84.8	1040	49.2	75-125	Low Bias			
Potassium	323	8.49	"	170	123	118	75-125				
Selenium	437	4.24	"	339	63.7	110	75-125				
Silver	1.30	0.855	"	8.48	ND	15.4	75-125	Low Bias			
Sodium	ND	84.8	"	170	ND		75-125	Low Bias			
Thallium	313	4.24	"	339	ND	92.2	75-125				
Vanadium	243	1.69	"	84.8	152	108	75-125				
Zinc	312	4.22	"	84.8	232	94.2	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30665 - EPA 3050B											
Post Spike (BK30665-PS1)	*Source sample: 23K0704-05 (Post Spike)							Prepared: 11/09/2023 Analyzed: 11/15/2023			
Aluminum	3.09		ug/mL	2.00	1.17	96.2	75-125				
Antimony	0.272		"	0.250	0.064	83.3	75-125				
Arsenic	2.77		"	2.00	0.849	96.1	75-125				
Barium	2.77		"	2.00	0.759	101	75-125				
Beryllium	0.049		"	0.0500	0.0004	96.8	75-125				
Cadmium	0.030		"	0.0500	-0.015	60.4	75-125	Low Bias			
Calcium	13.2		"	1.00	12.3	85.3	75-125				
Chromium	0.728		"	0.200	0.536	95.9	75-125				
Cobalt	1.05		"	0.500	0.587	93.4	75-125				
Copper	3.73		"	0.250	3.49	95.6	75-125				
Iron	934		"	1.00	939	NR	75-125	Low Bias			
Lead	1.16		"	0.500	0.712	89.4	75-125				
Magnesium	1.18		"	1.00	0.254	92.8	75-125				
Manganese	1.04		"	0.500	0.543	99.1	75-125				
Nickel	6.53		"	0.500	6.13	79.3	75-125				
Potassium	1.76		"	1.00	0.727	103	75-125				
Selenium	2.46		"	2.00	0.375	104	75-125				
Silver	0.009		"	0.0500	-0.044	18.7	75-125	Low Bias			
Sodium	-5.62		"	1.00	-8.16		75-125	Low Bias			
Thallium	1.78		"	2.00	0.011	88.2	75-125				
Vanadium	1.37		"	0.500	0.895	95.4	75-125				
Zinc	1.83		"	0.500	1.37	92.6	75-125				
Reference (BK30665-SRM1)								Prepared: 11/09/2023 Analyzed: 11/14/2023			
Aluminum	8890	4.17	mg/kg wet	9490		93.6	45.4-128.6				
Antimony	49.3	2.08	"	248		19.9	3-103.2				
Arsenic	141	1.25	"	163		86.6	68.7-100.6				
Barium	317	2.08	"	319		99.4	82.5-115.7				
Beryllium	94.0	0.042	"	119		79.0	77.7-109.2				
Cadmium	111	0.250	"	130		85.6	75.2-106.2				
Calcium	4780	4.17	"	5000		95.6	80.6-114.4				
Chromium	144	0.417	"	153		94.1	77.8-111.8				
Cobalt	145	0.333	"	153		94.9	79.1-109.8				
Copper	245	1.67	"	245		100	80.4-111				
Iron	7630	20.8	"	7540		101	69.8-144.6				
Lead	209	0.417	"	220		95.2	80-113.6				
Magnesium	2140	4.17	"	1980		108	85.9-129.3				
Manganese	402	0.417	"	431		93.3	79.6-114.2				
Nickel	164	0.830	"	175		93.7	76.6-108.6				
Potassium	1700	4.17	"	1570		108	80.9-131.2				
Selenium	158	2.08	"	156		102	80.8-118.6				
Silver	75.7	0.420	"	82.9		91.4	76.7-114.7				
Sodium	579	41.7	"	453		128	72.2-119.7	High Bias			
Thallium	81.0	2.08	"	99.4		81.5	75.8-110.7				
Vanadium	156	0.830	"	170		91.8	75.3-114.1				
Zinc	355	2.08	"	201		177	79.6-115.92	High Bias			

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30822 - EPA 3050B											
Blank (BK30822-BLK1)									Prepared: 11/13/2023 Analyzed: 11/14/2023		
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	4.90	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	0.425	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BK30822-DUP1)	*Source sample: 23K0788-01 (Duplicate)								Prepared: 11/13/2023 Analyzed: 11/15/2023		
Aluminum	9680	6.41	mg/kg dry		10800				11.0	35	
Antimony	3.57	3.21	"		4.17				15.5	35	
Arsenic	10.7	1.92	"		12.2				13.0	35	
Barium	234	3.20	"		258				9.69	35	
Beryllium	ND	0.065	"		ND					35	
Cadmium	7.17	0.385	"		7.46				3.93	35	
Calcium	14400	6.41	"		15900				9.31	35	
Chromium	63.1	0.642	"		70.7				11.5	35	
Cobalt	7.03	0.513	"		7.62				8.03	35	
Copper	355	2.57	"		395				10.7	35	
Iron	27500	32.1	"		31600				14.1	35	
Lead	551	0.642	"		616				11.1	35	
Magnesium	6530	6.42	"		7150				9.02	35	
Manganese	237	0.642	"		268				12.3	35	
Nickel	55.3	1.28	"		56.6				2.38	35	
Potassium	887	6.42	"		982				10.2	35	
Selenium	7.53	3.21	"		10.1				29.4	35	
Silver	ND	0.647	"		ND					35	
Sodium	8430	64.1	"		9250				9.17	35	
Thallium	ND	3.21	"		ND					35	
Vanadium	39.1	1.28	"		43.4				10.3	35	
Zinc	136	3.19	"		154				12.4	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30822 - EPA 3050B											
Matrix Spike (BK30822-MS1)	*Source sample: 23K0788-01 (Matrix Spike)							Prepared: 11/13/2023 Analyzed: 11/15/2023			
Aluminum	8650	6.41	mg/kg dry	257	10800	NR	75-125	Low Bias			
Antimony	11.2	3.21	"	32.1	4.17	21.8	75-125	Low Bias			
Arsenic	258	1.92	"	257	12.2	96.0	75-125				
Barium	440	3.20	"	257	258	70.8	75-125	Low Bias			
Beryllium	5.71	0.065	"	6.41	ND	89.0	75-125				
Cadmium	11.7	0.385	"	6.41	7.46	66.0	75-125	Low Bias			
Calcium	12400	6.41	"	128	15900	NR	75-125	Low Bias			
Chromium	77.0	0.642	"	25.7	70.7	24.5	75-125	Low Bias			
Cobalt	66.7	0.513	"	64.1	7.62	92.0	75-125				
Copper	341	2.57	"	32.1	395	NR	75-125	Low Bias			
Iron	24400	32.1	"	128	31600	NR	75-125	Low Bias			
Lead	534	0.642	"	64.1	616	NR	75-125	Low Bias			
Magnesium	5680	6.42	"	128	7150	NR	75-125	Low Bias			
Manganese	268	0.642	"	64.1	268	0.366	75-125	Low Bias			
Nickel	103	1.28	"	64.1	56.6	72.2	75-125	Low Bias			
Potassium	907	6.42	"	128	982	NR	75-125	Low Bias			
Selenium	257	3.21	"	257	10.1	96.3	75-125				
Silver	4.04	0.647	"	6.41	ND	63.0	75-125	Low Bias			
Sodium	7590	64.1	"	128	9250	NR	75-125	Low Bias			
Thallium	219	3.21	"	257	ND	85.6	75-125				
Vanadium	93.9	1.28	"	64.1	43.4	78.7	75-125				
Zinc	175	3.19	"	64.1	154	31.4	75-125	Low Bias			
Post Spike (BK30822-PS1)	*Source sample: 23K0788-01 (Post Spike)							Prepared: 11/13/2023 Analyzed: 11/15/2023			
Aluminum	85.1		ug/mL	2.00	84.2	43.1	75-125	Low Bias			
Antimony	0.235		"	0.250	0.032	81.1	75-125				
Arsenic	1.99		"	2.00	0.095	94.9	75-125				
Barium	3.90		"	2.00	2.01	94.4	75-125				
Beryllium	0.044		"	0.0500	-0.004	87.0	75-125				
Cadmium	0.103		"	0.0500	0.058	90.0	75-125				
Calcium	122		"	1.00	124	NR	75-125	Low Bias			
Chromium	0.733		"	0.200	0.551	91.0	75-125				
Cobalt	0.523		"	0.500	0.059	92.7	75-125				
Copper	3.36		"	0.250	3.08	113	75-125				
Iron	243		"	1.00	246	NR	75-125	Low Bias			
Lead	5.16		"	0.500	4.80	71.0	75-125	Low Bias			
Magnesium	55.8		"	1.00	55.7	12.0	75-125	Low Bias			
Manganese	2.54		"	0.500	2.09	90.1	75-125				
Nickel	0.899		"	0.500	0.441	91.6	75-125				
Potassium	8.60		"	1.00	7.66	93.8	75-125				
Selenium	2.01		"	2.00	0.079	96.3	75-125				
Silver	0.032		"	0.0500	-0.020	64.2	75-125	Low Bias			
Sodium	74.7		"	1.00	72.1	260	75-125	High Bias			
Thallium	1.66		"	2.00	-0.006	82.8	75-125				
Vanadium	0.808		"	0.500	0.338	93.9	75-125				
Zinc	1.65		"	0.500	1.20	90.1	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30822 - EPA 3050B											
Reference (BK30822-SRM1)								Prepared: 11/13/2023 Analyzed: 11/14/2023			
Aluminum	8410	4.17	mg/kg wet	9490		88.6	45.4-128.6				
Antimony	62.5	2.08	"	248		25.2	3-103.2				
Arsenic	133	1.25	"	163		81.8	68.7-100.6				
Barium	309	2.08	"	319		97.0	82.5-115.7				
Beryllium	99.0	0.042	"	119		83.2	77.7-109.2				
Cadmium	111	0.250	"	130		85.0	75.2-106.2				
Calcium	4450	4.17	"	5000		89.1	80.6-114.4				
Chromium	137	0.417	"	153		89.3	77.8-111.8				
Cobalt	138	0.333	"	153		90.0	79.1-109.8				
Copper	227	1.67	"	245		92.8	80.4-111				
Iron	7330	20.8	"	7540		97.3	69.8-144.6				
Lead	196	0.417	"	220		88.9	80-113.6				
Magnesium	1980	4.17	"	1980		100	85.9-129.3				
Manganese	393	0.417	"	431		91.1	79.6-114.2				
Nickel	156	0.830	"	175		89.1	76.6-108.6				
Potassium	1620	4.17	"	1570		103	80.9-131.2				
Selenium	154	2.08	"	156		98.4	80.8-118.6				
Silver	57.7	0.420	"	82.9		69.6	76.7-114.7	Low Bias			
Sodium	542	41.7	"	453		120	72.2-119.7	High Bias			
Thallium	82.8	2.08	"	99.4		83.3	75.8-110.7				
Vanadium	146	0.830	"	170		85.7	75.3-114.1				
Zinc	339	2.08	"	201		169	79.6-115.92	High Bias			

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30939 - EPA 7473 soil											
Blank (BK30939-BLK1)								Prepared & Analyzed: 11/14/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK30939-DUP1)	*Source sample: 23K0580-01 (23SP9 (0-2.5ft))							Prepared & Analyzed: 11/14/2023			
Mercury	0.159	0.0331	mg/kg dry		0.277				54.3	35	Non-dir.
Matrix Spike (BK30939-MS1)	*Source sample: 23K0580-01 (23SP9 (0-2.5ft))							Prepared & Analyzed: 11/14/2023			
Mercury	0.653		mg/kg	0.500	0.251	80.4	75-125				
Reference (BK30939-SRM1)								Prepared & Analyzed: 11/14/2023			
Mercury	21.692		mg/kg	18.2		119	59.9-140.1				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30713 - Analysis Preparation Soil											
Blank (BK30713-BLK1)								Prepared & Analyzed: 11/10/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK30713-DUP1)	*Source sample: 23K0580-01 (23SP9 (0-2.5ft))							Prepared & Analyzed: 11/10/2023			
Cyanide, total	ND	0.552	mg/kg dry		0.552					15	
Matrix Spike (BK30713-MS1)	*Source sample: 23K0580-01 (23SP9 (0-2.5ft))							Prepared & Analyzed: 11/10/2023			
Cyanide, total	10.7	0.552	mg/kg dry	11.0	0.552	92.0	79.6-107				
Matrix Spike Dup (BK30713-MSD1)	*Source sample: 23K0580-01 (23SP9 (0-2.5ft))							Prepared & Analyzed: 11/10/2023			
Cyanide, total	10.0	0.552	mg/kg dry	11.0	0.552	85.5	79.6-107		6.93	200	
Reference (BK30713-SRM1)								Prepared & Analyzed: 11/10/2023			
Cyanide, total	155		ug/mL	131		118	44.4-156.5				
Batch BK30805 - EPA SW846-3060											
Blank (BK30805-BLK1)								Prepared & Analyzed: 11/13/2023			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK30805-DUP1)	*Source sample: 23K0580-08 (23SP8 (25-27.5ft))							Prepared & Analyzed: 11/13/2023			
Chromium, Hexavalent	ND	0.625	mg/kg dry		ND					35	
Matrix Spike (BK30805-MS1)	*Source sample: 23K0580-08 (23SP8 (25-27.5ft))							Prepared & Analyzed: 11/13/2023			
Chromium, Hexavalent	18.0	0.625	mg/kg dry	25.0	ND	72.0	75-125	Low Bias			
Matrix Spike Dup (BK30805-MSD1)	*Source sample: 23K0580-08 (23SP8 (25-27.5ft))							Prepared & Analyzed: 11/13/2023			
Chromium, Hexavalent	21.3	0.625	mg/kg dry	25.0	ND	85.2	75-125		16.8	200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30805 - EPA SW846-3060											
Reference (BK30805-SRM1)								Prepared & Analyzed: 11/13/2023			
Chromium, Hexavalent	220		mg/L	227		96.8	42.3-157.7				
Batch BK30809 - Analysis Preparation Soil											
Blank (BK30809-BLK1)								Prepared & Analyzed: 11/13/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK30809-DUP1)	*Source sample: 23K0595-02 (Duplicate)							Prepared & Analyzed: 11/13/2023			
Cyanide, total	ND	0.561	mg/kg dry		ND					15	
Matrix Spike (BK30809-MS1)	*Source sample: 23K0595-02 (Matrix Spike)							Prepared & Analyzed: 11/13/2023			
Cyanide, total	9.42	0.561	mg/kg dry	11.2	ND	84.0	79.6-107				
Matrix Spike Dup (BK30809-MSD1)	*Source sample: 23K0595-02 (Matrix Spike Dup)							Prepared & Analyzed: 11/13/2023			
Cyanide, total	8.58	0.561	mg/kg dry	11.2	ND	76.5	79.6-107	Low Bias	9.35	200	
Reference (BK30809-SRM1)								Prepared & Analyzed: 11/13/2023			
Cyanide, total	126		ug/mL	131		95.8	44.4-156.5				
Batch BK30826 - EPA SW846-3060											
Blank (BK30826-BLK1)								Prepared & Analyzed: 11/13/2023			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK30826-DUP1)	*Source sample: 23K0595-01 (Duplicate)							Prepared & Analyzed: 11/13/2023			
Chromium, Hexavalent	ND	0.539	mg/kg dry		ND					35	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30826 - EPA SW846-3060											
Matrix Spike (BK30826-MS1)	*Source sample: 23K0595-01 (Matrix Spike)								Prepared & Analyzed: 11/13/2023		
Chromium, Hexavalent	14.5	0.539	mg/kg dry	21.6	ND	67.2	75-125	Low Bias			
Matrix Spike Dup (BK30826-MSD1)	*Source sample: 23K0595-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/13/2023		
Chromium, Hexavalent	13.8	0.539	mg/kg dry	21.6	ND	63.8	75-125	Low Bias	5.19	200	
Reference (BK30826-SRM1)									Prepared & Analyzed: 11/13/2023		
Chromium, Hexavalent	262		mg/L	227		115	42.3-157.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30780 - % Solids Prep											
Duplicate (BK30780-DUP1)	*Source sample: 23K0580-14 (23SP10 (25-27.5ft))								Prepared & Analyzed: 11/13/2023		
% Solids	76.0	0.100	%		77.3				1.71	20	
Batch BK30781 - % Solids Prep											
Duplicate (BK30781-DUP1)	*Source sample: 23K0597-01 (Duplicate)								Prepared & Analyzed: 11/13/2023		
% Solids	88.7	0.100	%		88.7				0.0463	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K0580-01	23SP9 (0-2.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-02	23SP9 (10-12.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-03	23SP9 (12.5-15ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-04	23SP9 (25-27.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-05	23SP8 (0-2.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-06	23SP8 (10-12.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-07	23SP8 (14-16ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-08	23SP8 (25-27.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-09	Trip Blank 11-06-23	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K0580-11	23SP10 (0-2.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-12	23SP10 (12.5-15ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-13	23SP10 (18-22ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-14	23SP10 (25-27.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-15	23SP1 (0-2.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-16	23SP1 (10-12.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-17	23SP1 (12.5-15ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-18	23SP1 (22.5-25ft)	40mL Vial with Stir Bar-Cool 4° C
23K0580-20	Trip Blank 11-07-23	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

PCB-I	PCB calculations are based uoon the average response of 5 peaks for each Aroclor. For this sample an internference was present and the analyst was unable to use all 5 peaks.
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
IS-HI	The internal std associated with this target compound did not meet acceptance criteria (area >200% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
VOA-E	The concentration reported for this analyte is an estimated value above the linear range of the instrument for EPA SW846-5035/8260 (>200ppb). Re-analysis using 5035/8260 medium level prep. resulted in a detection below the reporting limit (<500ppb).
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-08	The recovery of this surrogate was outside of QC limits.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.

MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: .

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

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Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0580

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th. St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

F. Haman

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)
UUSCO
RUSCO

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP9 (0-2.5ft.)	S	11/6/23 10:00	TCL+10 VOCs and TICs,	12 1802., 4 vials, 1 PFAS plastic	
23SP9 (10-12.5)		10:15	TCL+20 SVOCs and TICs,		
23SP9 (12.5-15ft.)		10:20	Pesticides EPA Method 8081,		
23SP9 (25-30ft)		10:35	PCBs EPA Method 8082, 21		
23SP8 (0-25ft.)		10:45	PFAS compounds via EPA		
23SP8 (10-12.5)		10:50	Method 1633, 1,4 dioxane		
23SP8 (14-16)		11:00	via EPA method 8270 SIM		
23SP8 (25-27.5)		11:10	TAL Metals plus		
Trip Blank			cyanide and hexavalent	2 vials	
PFAS Field Blank			chromium	2 PFAS plastic	

Comments:

Terra Cores frozen at plg KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
			11/8/2023		
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
K Barkyork	11/8/23 1245PM	K Barkyork	11/8/23 16:35		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/8/23 16:35 / 1.2 Degrees C

Field Chain-of-Custody Record

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YORK Project No. 23K0580

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Tcrchstone	Company: T Orchstone.	Company: Torchstone		RUSH - Next Day
Address:	Address:	Address:		RUSH - Two Day
Phone.:	Phone.:	Phone.:	YOUR Project Name: 160 E. 149th. St. Bronx, NY	RUSH - Three Day
Contact:	Contact:	Contact:		RUSH - Four Day
E-mail:	E-mail:	E-mail:	YOUR PO#:	RUSH - Five Day
				Standard (6-9 Day)
				PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

First Ataman

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP10 (0-2.5ft)	S	11/6/23 13:15	See First Page	(2)8 oz. 4vials	
23SP10 (7.5-15ft.)		14:00		(1) PFAS plastic	
23SP10 (18-22 ft.)		14:20			
23SP10 (25-27.5ft.)		14:30			
23SP1 (0-2.5ft.)		11/7/23 10:50			
23SP1 (10-12.5ft.)		11:15			
23SP1 (12.5-15ft.)		11:30			
23SP1 (22.5-25ft.)		11:45			

Comments: Terra Cores Frozen AT P/U KB

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Samples iced/chilled at time of lab pickup? circle Yes or No

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/8/23	K Bachyork	11/8/23 1245PM	K Bachyork	11/8/23 16:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by: 2	Date/Time: 11/8/23 16:35

Temperature: 1.2 Degrees C

Field Chain-of-Custody Record

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YORK Project No.: 23K0580

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th. St. Bronx, NY

YOUR PO#:

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- RUSH - Five Day
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F. Haman

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WW - wastewater
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New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

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QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)
UUSCO
RUSCO

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP9 (0-2.5ft.)	S	11/6/23 10:00	TCL+10 UOCs and TICs,	12 1802., 4 vials, 1 PFAS plastic	
23SP9 (10-12.5)		10:15	TCL+20 SVOCs and TICs,		
23SP9 (12.5-15ft.)		10:20	Pesticides EPA Method 8081,		
23SP9 ~~(25-30ft)~~ (25-27.5 ft)		10:35	PCBs EPA Method 8082, 21		
23SP8 (0-25ft.)		10:45	PFAS compounds via EPA		
23SP8 (10-12.5)		10:50	Method 1633, 1,4 dioxane		
23SP8 (14-16)		11:00	via EPA method 8270 SIM		
23SP8 (25-27.5)		11:10	TAL Metals plus		
Trip Blank 11/6/23			cyanide and hexavalent	2 vials	
PFAS Field Blank			chromium	2 PFAS plastic	

Comments:

Terra Cores frozen at PLK B

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
			11/8/2023		
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
K Barkyork	11/8/23 1245PM	K Barkyork	11/8/23 16:35		
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/8/23 16:35 / 1.2 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0580

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: Tonchstone	Company: T Conchstone.	Company: Tonchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number

YOUR Project Name: 100 E. 149th. St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)**

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

First Ataman

Samples Collected by: (print AND sign your name)

Matrix Codes

- S - soil / solid
- GW - groundwater
- DW - drinking water
- WW - wastewater
- O - Oil | Other

Samples From

- New York
- New Jersey
- Connecticut
- Pennsylvania
- Other:

Report / EDD Type (circle selections)

- Summary Report
- QA Report
- CMDP
- Standard Excel EDD
- NY ASP B Package
- CT RCP
- CT RCP DQA/DUE
- NJDEP Reduced Deliverables
- EQuIS (Standard)
- NYSDEC EQuIS
- NJDKQP
- NJDEP SRP HazSite
- Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP10 (0-2.5ft)	S	11/6/23 13:15	See First Page	(2)8 oz. 4vials	
23SP10 (12.5-15ft.)		14:00		(1) PFAS plastic	
23SP10 (18-22 ft.)		14:20			
23SP10 (25-27.5ft.)		14:30			
23SP1 (0-2.5ft.)		11/7/23 10:50			
23SP1 (10-12.5ft.)		11:15			
23SP1 (12.5-15ft.)		11:30			
23SP1 (22.5-25ft.)		11:45			
Trip Blank 11/07/23	O	11/7/23		2 vials	

Comments: Terra Cores Frozen AT P/U KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

- Field Filtered
- Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/8/23	K Bachyork	11/8/23 1245PM	K Bachyork	11/8/23 16:35
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[illegible]	11/8/23 16:35 / 1.2 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 11/17/2023
Client Project ID: 220293 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0665

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/17/2023
Client Project ID: 220293 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0665

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 09, 2023 and listed below. The project was identified as your project: **220293 100 East 149th St. Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K0665-01	23SP3 (0-2.5 ft)	Soil	11/08/2023	11/09/2023
23K0665-02	23SP3 (8-12 ft)	Soil	11/08/2023	11/09/2023
23K0665-03	23SP3 (12-14 ft)	Soil	11/08/2023	11/09/2023
23K0665-04	23SP3 (25-30 ft)	Soil	11/08/2023	11/09/2023
23K0665-05	23SP4 (0-5 ft)	Soil	11/08/2023	11/09/2023
23K0665-06	23SP4 (12-14 ft)	Soil	11/08/2023	11/09/2023
23K0665-07	23SP4 (14-16 ft)	Soil	11/08/2023	11/09/2023
23K0665-08	23SP4 (27.5-30 ft)	Soil	11/08/2023	11/09/2023
23K0665-09	Field Blank	Water	11/08/2023	11/09/2023
23K0665-10	Trip Blank	Water	11/08/2023	11/09/2023

General Notes for York Project (SDG) No.: 23K0665

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Date: 11/17/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.057	0.11	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.014**	CCVE, ICVE	mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0057	0.011	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 12:27	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
108-88-3	Toluene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723	11/14/2023 12:27	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0029	0.0057	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0086	0.017	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 12:27	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.2 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.0 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*111 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 12:27	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP3 (0-2.5 ft)** **York Sample ID:** **23K0665-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:26	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:26	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:26	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:26	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:26	KH-

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	**Anthracene**	**0.0448**	J	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH-
56-55-3	**Benzo(a)anthracene**	**0.150**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
50-32-8	**Benzo(a)pyrene**	**0.141**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
205-99-2	**Benzo(b)fluoranthene**	**0.131**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
191-24-2	**Benzo(g,h,i)perylene**	**0.125**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
207-08-9	**Benzo(k)fluoranthene**	**0.0989**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
218-01-9	**Chrysene**	**0.140**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0890	0.178	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-
206-44-0	**Fluoranthene**	**0.292**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.115**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.171**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 20:26	KH-
129-00-0	**Pyrene**	**0.281**		mg/kg dry	0.0446	0.0890	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 20:26	KH-

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*9.72 %*	S-08, S-Alk	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*20.5 %*	S-08, S-Alk	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*27.4 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*27.4 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*3.92 %*	S-08, S-Alk	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*28.7 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0187	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 01:23	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*58.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.120	0.192	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0574	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**0.201**	J	ug/kg dry	0.186	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**2.38**		ug/kg dry	0.181	0.202	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.177	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.135	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.112	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.160	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.210	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.118	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.645	0.824	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.818	0.832	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.118	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.151	0.386	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.209	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0672	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.645	0.813	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.659	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.337	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.267	0.811	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.189	0.819	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.183	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.134	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 14:59	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.687	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.27	5.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.63	5.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.662	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.755	2.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 14:59	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*55.4 %*	*25-150*
Surrogate: M5PFHxA	*66.7 %*	*25-150*
Surrogate: M4PFHpA	*73.9 %*	*25-150*
Surrogate: M3PFHxS	*90.0 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*59.8 %*	*25-150*
Surrogate: M6PFDA	*66.6 %*	*25-150*

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*58.7 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*48.4 %*			*25-150*						
	Surrogate: M2PFTeDA	*44.9 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.71 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*89.3 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*61.1 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*46.7 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*27.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*31.9 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*31.9 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*53.5 %*			*25-200*						
	Surrogate: M9PFNA	*65.2 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*12.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*34.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*54.3 %*			*25-150*						
	Surrogate: M3HFPO-DA	*69.2 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*97.8 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*131 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:26	KH-

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.80	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:37	BCJ

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	**4,4'-DDT**	**4.94**		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
309-00-2	Aldrin	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	35.9	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.80	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.98	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	90.9	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:37	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0181	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:16	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8350**		mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.28	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**3.80**		mg/kg dry	1.37	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**478**		mg/kg dry	2.27	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.273	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**47900**	B	mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**18.2**		mg/kg dry	0.455	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.02**		mg/kg dry	0.364	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**52.4**		mg/kg dry	1.82	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**12600**		mg/kg dry	22.8	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**73.4**		mg/kg dry	0.455	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4880**		mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**216**		mg/kg dry	0.455	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**14.6**		mg/kg dry	0.907	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1320**		mg/kg dry	4.55	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.42**		mg/kg dry	2.28	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.459	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1500**		mg/kg dry	45.5	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.28	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**48.8**		mg/kg dry	0.907	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**41.8**		mg/kg dry	2.27	1	EPA 6010D	11/09/2023 21:43	11/15/2023 18:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP3 (0-2.5 ft) **York Sample ID:** 23K0665-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:00 am	11/09/2023

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.286**		mg/kg dry	0.0328	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**2.36**		mg/kg dry	0.546	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.8**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.546	1	EPA 9014/9010C	11/14/2023 12:11	11/14/2023 19:25	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.6**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP3 (8-12 ft)** **York Sample ID:** **23K0665-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	QL-02, CCVE, ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0069	0.014	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 12:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.4 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.5 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 12:54	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:56	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:56	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 20:56	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E, CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
606-20-2	2,6-Dinitrotoluene	ND	CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.178	0.355	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	**Anthracene**	**0.0801**	J	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.178	0.355	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 20:56	KH-
56-55-3	**Benzo(a)anthracene**	**0.698**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 20:56	KH-
50-32-8	**Benzo(a)pyrene**	**0.935**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 20:56	KH-
205-99-2	**Benzo(b)fluoranthene**	**0.767**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 20:56	KH-
191-24-2	**Benzo(g,h,i)perylene**	**0.660**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 20:56	KH-
207-08-9	**Benzo(k)fluoranthene**	**0.625**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 20:56	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 20:56	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
218-01-9	**Chrysene**	**0.704**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 20:56	KH-
53-70-3	**Dibenzo(a,h)anthracene**	**0.175**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 20:56	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 20:56	KH-

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	**Di-n-octyl phthalate**	**0.0893**	CAL-E, CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0887	0.177	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH-
206-44-0	**Fluoranthene**	**0.775**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.764**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.277**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 20:56	KH-
129-00-0	**Pyrene**	**0.939**		mg/kg dry	0.0445	0.0887	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/16/2023 20:56	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*66.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*71.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*74.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*87.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.1 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 01:40	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*50.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.119	0.189	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0566	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.112	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.191	0.195	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.184	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**1.38**		ug/kg dry	0.178	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.202	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.204	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.211	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.174	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.133	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.110	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.158	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.207	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.116	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.156	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.166	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.204	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.635	0.812	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.806	0.820	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.116	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.148	0.380	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.206	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0662	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.103	0.427	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.168	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.635	0.801	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.649	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.332	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.263	0.799	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.186	0.807	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.180	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.132	0.205	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 15:17	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.677	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.24	5.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.60	5.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.652	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.192	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.744	2.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.211	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 15:17	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*93.8 %*	*25-150*
Surrogate: M5PFHxA	*120 %*	*25-150*
Surrogate: M4PFHpA	*135 %*	*25-150*
Surrogate: M3PFHxS	*144 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*	*25-150*
Surrogate: M6PFDA	*115 %*	*25-150*

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*115 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*91.0 %*			*25-150*						
	Surrogate: M2PFTeDA	*80.4 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*22.8 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*109 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*132 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*64.8 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*65.6 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*81.5 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*80.4 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*135 %*			*25-200*						
	Surrogate: M9PFNA	*110 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*37.0 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*34.6 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*60.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*94.5 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*93.6 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*111 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 20:56	KH-

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.78	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:58	BCJ

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	35.7	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.78	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.92	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	90.3	5	EPA 8081B	11/16/2023 08:29	11/16/2023 21:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0180	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:30	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*74.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6830**		mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**5.00**		mg/kg dry	1.36	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**200**		mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.271	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**30500**	B	mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**16.6**		mg/kg dry	0.452	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.02**		mg/kg dry	0.361	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**53.9**		mg/kg dry	1.81	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**16000**		mg/kg dry	22.6	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**186**		mg/kg dry	0.452	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**7320**		mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**223**		mg/kg dry	0.452	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**14.9**		mg/kg dry	0.900	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1170**		mg/kg dry	4.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.82**		mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.456	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**856**		mg/kg dry	45.2	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.26	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**31.2**		mg/kg dry	0.900	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**38.2**		mg/kg dry	2.25	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP3 (8-12 ft) **York Sample ID:** 23K0665-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:15 am	11/09/2023

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.11**		mg/kg dry	0.0325	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.542	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.6**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.542	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.2**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP3 (12-14 ft)** **York Sample ID:** **23K0665-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.0096**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	**1,3,5-Trimethylbenzene**	**0.0070**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.067	0.13	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	ICVE, QL-02, CCVE	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-64-1	Acetone	ND	CCVE, IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	Benzene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND	IS-HI, CCVE	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-00-3	Chloroethane	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-87-3	Chloromethane	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**0.059**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**2.8**		mg/kg dry	0.29	0.59	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:15	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**0.092**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**0.17**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.0098**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**0.031**		mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**0.020**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	**sec-Butylbenzene**	**0.056**		mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	**tert-Butylbenzene**	**0.0053**	J	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE, IS-HI	mg/kg dry	0.0033	0.0067	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.041**		mg/kg dry	0.010	0.020	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*20.9 %*	IS-HI, S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*123 %*	S-04, S-08	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*142 %*	S-04, S-08	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Azetidine methyl isomer**	**0.071**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:			
000874-41-9	**Benzene, 1-ethyl-2,4-dimethyl-**	**0.079**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:			
NA	**Cyclohexane dimethyl isomer**	**0.069**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:			
NA	**Cyclohexane dimethyl trans ...**	**0.11**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:22	SS
								Certifications:			

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	Cyclohexane ethyl isomer	0.063	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Cyclohexane trimethyl isomer	0.10	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Cyclopentane dimethyl cis i...	0.092	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Cyclopentane dimethyl isomer	0.057	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Cyclopentane trimethyl isomer	0.067	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Heptane dimethyl isomer	0.067	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Heptane methyl isomer	0.055	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Hexane methyl isomer	0.10	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Indan methyl isomer	0.065	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Pentane methyl isomer	0.12	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS
NA	Trimethylbicycloheptylamine...	0.12	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:22	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:25	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:25	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:25	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:25	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:25	KH-

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**0.871**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.197	0.394	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.197	0.394	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH-
56-55-3	**Benzo(a)anthracene**	**0.117**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
50-32-8	**Benzo(a)pyrene**	**0.131**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
205-99-2	**Benzo(b)fluoranthene**	**0.103**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
191-24-2	**Benzo(g,h,i)perylene**	**0.0920**	J	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
207-08-9	**Benzo(k)fluoranthene**	**0.0928**	J	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
218-01-9	**Chrysene**	**0.122**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-84-0	**Di-n-octyl phthalate**	**0.104**	CAL-E, CCVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0984	0.196	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
206-44-0	**Fluoranthene**	**0.230**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0959**	J	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**1.20**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.178**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**0.249**		mg/kg dry	0.0493	0.0984	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*55.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*52.1 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*60.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*57.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*69.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*66.3 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0190	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 01:57	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*52.1 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.130	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0619	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.123	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.209	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.201	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.195	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.221	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.223	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.231	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.190	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.146	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.120	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.173	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.227	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.127	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.171	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.181	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.223	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.695	0.888	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.882	0.897	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.127	0.935	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.162	0.416	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.226	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0724	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.112	0.467	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.183	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.695	0.876	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.710	0.935	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.363	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.287	0.874	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.203	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.197	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.145	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:10	ESJ

Sample Information

Client Sample ID: **23SP3 (12-14 ft)** **York Sample ID:** **23K0665-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.741	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.45	5.84	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.75	5.84	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.714	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.210	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.814	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.231	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:10	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*99.6 %*	*25-150*
Surrogate: M5PFHxA	*98.8 %*	*25-150*
Surrogate: M4PFHpA	*118 %*	*25-150*
Surrogate: M3PFHxS	*165 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*110 %*	*25-150*
Surrogate: M6PFDA	*133 %*	*25-150*
Surrogate: M7PFUdA	*129 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*121 %*	*25-150*
Surrogate: M2PFTeDA	*112 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.89 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*114 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*8.23 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*74.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*83.9 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*94.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*72.0 %*	*25-200*
Surrogate: M2-8:2 FTS	*81.9 %*	*25-200*
Surrogate: M9PFNA	*120 %*	*25-150*
Surrogate: M2-4:2 FTS	*50.9 %*	*25-150*

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d-N-MeFOSA	*63.1 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*48.1 %*			*25-150*						
	Surrogate: M3HFPO-DA	*99.0 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*118 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*122 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.2**	**2.06**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 5.4**	**0.978**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 5.5**	**2.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 5.6**	**2.31**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Benzene Isomer RT 6.1**	**0.934**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**1.96**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**ethyl dimethyl Benzene Isom...**	**2.77**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Tetramethyl Benzene Isomer ...**	**1.06**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Trimethyl Benzene Isomer RT... (01)**	**0.877**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Trimethyl Benzene Isomer RT... (02)**	**3.27**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Trimethyl Benzene Isomer RT... (03)**	**1.17**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Unknown Hydrocarbon RT 3.6**	**1.08**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Unknown Hydrocarbon RT 3.7**	**1.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Unknown Hydrocarbon RT 4.4 (01)**	**1.37**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-
NA	**Unknown Hydrocarbon RT 4.4 (02)**	**1.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:25	KH-

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	39.0	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.95	5	EPA 8081B	11/16/2023 08:29	11/16/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:20	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	9.76	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:20	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	98.8	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:20	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*71.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:43	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:43	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:43	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:43	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:43	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:43	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 09:43	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 09:43	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP3 (12-14 ft)** **York Sample ID:** **23K0665-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7980**		mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.84**		mg/kg dry	1.48	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**96.6**		mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.050	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.297	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**11700**	B	mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**23.1**		mg/kg dry	0.495	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.83**		mg/kg dry	0.395	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**28.0**		mg/kg dry	1.98	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**13100**		mg/kg dry	24.7	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**125**		mg/kg dry	0.495	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**3290**		mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**255**		mg/kg dry	0.495	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.8**		mg/kg dry	0.985	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2140**		mg/kg dry	4.95	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.499	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**211**		mg/kg dry	49.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.47	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (12-14 ft) **York Sample ID:** 23K0665-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:25 am	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	**Vanadium**	**20.8**		mg/kg dry	0.985	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**55.3**		mg/kg dry	2.46	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.782**		mg/kg dry	0.0356	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.594	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.1**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.712**		mg/kg dry	0.594	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.2**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: **23SP3 (25-30 ft)** **York Sample ID:** **23K0665-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.046	0.092	1	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 17:42	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
591-78-6	2-Hexanone	ND	ICVE, CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
67-64-1	**Acetone**	**0.0082**	J	mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 17:42	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
71-43-2	Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 17:42	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 17:42	SS

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0046	0.0092	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02, CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0023	0.0046	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0069	0.014	1	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*92.4 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*88.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.1 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 17:42	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP3 (25-30 ft)** **York Sample ID:** **23K0665-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:55	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:55	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 21:55	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.202	0.405	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-87-5	Benzidine	ND		mg/kg dry	0.202	0.405	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 21:55	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 21:55	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 21:55	KH-

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
122-39-4	* Diphenylamine	ND		mg/kg dry	0.101	0.202	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
85-01-8	Phenanthrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 21:55	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0506	0.101	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 21:55	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*56.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*57.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*60.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*63.7 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.7 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*65.7 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0192	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 02:15	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*57.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.134	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0641	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.127	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.217	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.208	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.202	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.229	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.231	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.240	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.197	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.151	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.125	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.179	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.235	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.132	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.177	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.188	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.231	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.720	0.920	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.914	0.929	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.132	0.968	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.168	0.431	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.234	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0750	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.116	0.484	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.190	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.720	0.908	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.736	0.968	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.376	0.915	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.298	0.905	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.211	0.915	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.205	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.150	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:26	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.767	1.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.54	6.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.82	6.05	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.739	2.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.218	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.843	2.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.240	0.242	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:26	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*104 %*	*25-150*
Surrogate: M5PFHxA	*129 %*	*25-150*
Surrogate: M4PFHpA	*153 %*	*25-150*
Surrogate: M3PFHxS	*145 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*116 %*	*25-150*
Surrogate: M6PFDA	*130 %*	*25-150*

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*140 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*125 %*			*25-150*						
	Surrogate: M2PFTeDA	*101 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.97 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*114 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*31.3 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*94.5 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*86.8 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*87.1 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*67.6 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*71.5 %*			*25-200*						
	Surrogate: M9PFNA	*133 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*56.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*83.8 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*94.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*145 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*129 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*157 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 21:55	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
57-74-9	Chlordane, total	ND		ug/kg dry	39.1	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
319-86-8	delta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
60-57-1	Dieldrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 23:26	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
72-20-8	Endrin	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	9.77	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:26	BCJ

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/kg dry	98.9	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:26	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*103 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*81.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A	11/16/2023 08:29	11/17/2023 09:57	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*95.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8120**		mg/kg dry	5.08	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**2.69**		mg/kg dry	1.52	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**33.3**		mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.305	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**591**	B	mg/kg dry	5.08	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**13.0**		mg/kg dry	0.509	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**3.85**		mg/kg dry	0.406	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**11.1**		mg/kg dry	2.03	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**8520**		mg/kg dry	25.4	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**8.57**		mg/kg dry	0.509	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**2200**		mg/kg dry	5.09	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**62.4**		mg/kg dry	0.509	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**11.1**		mg/kg dry	1.01	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1020**		mg/kg dry	5.09	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.512	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**106**		mg/kg dry	50.8	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**15.5**		mg/kg dry	1.01	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**31.6**		mg/kg dry	2.53	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:53	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP3 (25-30 ft) **York Sample ID:** 23K0665-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 11:40 am	11/09/2023

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0366	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications: CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044			

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.610	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications: NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044			

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**13.0**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.610	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**82.0**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP4 (0-5 ft)** **York Sample ID:** **23K0665-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**0.060**		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**0.015**		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:17	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.052	0.10	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-64-1	**Acetone**	**0.0063**	CCVE, J	mg/kg dry	0.0052	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
107-02-8	Acrolein	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	**Benzene**	**0.0068**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.016**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.036**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**0.0058**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**0.030**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0052	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	**n-Propylbenzene**	**0.017**		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.0032**	J	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**0.060**		mg/kg dry	0.0052	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	**Toluene**	**0.0026**	J	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0026	0.0052	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	**Xylenes, Total**	**0.063**		mg/kg dry	0.0078	0.016	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*87.0 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.6 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene cyclopropyl isomer**	**0.020**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS
NA	**Benzene ethyl dimethyl isomer**	**0.0056**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS
NA	**Benzene ethyl -methyl isomer**	**0.011**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS
NA	**Cyclopentane methyl isomer**	**0.014**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS
NA	**Pentane methy isomer**	**0.0072**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 14:17	SS

Sample Information

Client Sample ID: **23SP4 (0-5 ft)** **York Sample ID:** **23K0665-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 NELAC-NY10854,PADEP-68-04440	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 NELAC-NY10854,PADEP-68-04440	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 NELAC-NY10854,PADEP-68-04440	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**0.0470**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0595**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.603**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.733**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:25	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.184	0.368	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 22:25	KH-
56-55-3	**Benzo(a)anthracene**	**2.92**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
50-32-8	**Benzo(a)pyrene**	**2.91**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
205-99-2	**Benzo(b)fluoranthene**	**2.81**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
191-24-2	**Benzo(g,h,i)perylene**	**1.51**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
207-08-9	**Benzo(k)fluoranthene**	**2.11**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:25	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:25	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 22:25	KH-
86-74-8	**Carbazole**	**0.0581**	J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
218-01-9	**Chrysene**	**2.35**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
53-70-3	**Dibenzo(a,h)anthracene**	**0.596**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:25	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:25	KH-

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	**Di-n-octyl phthalate**	**0.0515**	CAL-E, J	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0920	0.184	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH-
206-44-0	**Fluoranthene**	**5.56**		mg/kg dry	0.230	0.460	10	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 09:53	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**2.10**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.243**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.827**		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP4 (0-5 ft)

York Sample ID: 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		mg/kg dry	0.0461	0.0920	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:25	KH-
129-00-0	**Pyrene**	**4.68**		mg/kg dry	0.230	0.460	10	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 08:12	11/17/2023 09:53	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*44.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*51.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.6 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*60.2 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*25.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0187	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 02:32	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*55.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.123	0.196	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0684**	J	ug/kg dry	0.0587	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.116	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.198	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.191	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.185	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ

Sample Information

Client Sample ID: 23SP4 (0-5 ft)

York Sample ID: 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.209	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.212	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.219	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.181	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.139	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.114	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.164	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.215	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**0.144**	J	ug/kg dry	0.121	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.162	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.172	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.212	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.659	0.842	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.837	0.851	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.121	0.887	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.154	0.395	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.214	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0687	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.106	0.443	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.174	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.659	0.831	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.674	0.887	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.345	0.838	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.273	0.829	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.193	0.838	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.187	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.137	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:42	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.703	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.33	5.54	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.66	5.54	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.677	2.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.200	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.773	2.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.219	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:42	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*61.3 %*	*25-150*
Surrogate: M5PFHxA	*103 %*	*25-150*
Surrogate: M4PFHpA	*126 %*	*25-150*
Surrogate: M3PFHxS	*134 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*	*25-150*
Surrogate: M6PFDA	*112 %*	*25-150*

Sample Information

Client Sample ID: **23SP4 (0-5 ft)** **York Sample ID:** **23K0665-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M7PFUdA	*99.6 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*84.9 %*			*25-150*						
	Surrogate: M2PFTeDA	*70.7 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.47 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*120 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*11.2 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*77.3 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*58.3 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*66.0 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*98.8 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*112 %*			*25-200*						
	Surrogate: M9PFNA	*108 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*60.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*44.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*54.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*112 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*74.0 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*82.2 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown PAH RT 12.3**	**1.32**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH-
NA	**Unknown PAH RT 16.5**	**0.748**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH-
NA	**Unknown PAH RT 16.8**	**1.75**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:25	KH-

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:47	BCJ

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-55-9	4,4'-DDE	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/kg dry	36.1	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53494-70-5	Endrin ketone	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.81	5	EPA 8081B Certifications:	11/16/2023 08:29	11/16/2023 23:47	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	9.04	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	91.5	5	EPA 8081B	11/16/2023 08:29	11/16/2023 23:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0183	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:11	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14600**		mg/kg dry	4.70	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.67**		mg/kg dry	1.41	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**122**		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.047	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.282	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**12100**	B	mg/kg dry	4.70	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**25.7**		mg/kg dry	0.471	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.45**		mg/kg dry	0.376	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**37.9**		mg/kg dry	1.88	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**17600**		mg/kg dry	23.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**107**		mg/kg dry	0.471	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4980**		mg/kg dry	4.71	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**342**		mg/kg dry	0.471	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.6**		mg/kg dry	0.936	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2710**		mg/kg dry	4.71	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.58**		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.474	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**483**		mg/kg dry	47.0	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**34.7**		mg/kg dry	0.936	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**61.4**		mg/kg dry	2.34	1	EPA 6010D	11/13/2023 14:14	11/16/2023 16:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP4 (0-5 ft) **York Sample ID:** 23K0665-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:30 pm	11/09/2023

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.237**		mg/kg dry	0.0338	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.564	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**25.7**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.564	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.6**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP4 (12-14 ft)** **York Sample ID:** **23K0665-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**64**		mg/kg dry	2.8	5.6	1000	EPA 8260D	11/16/2023 09:00	11/16/2023 14:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**22**		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:09	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg dry	5.6	11	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:09	SS
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
67-64-1	Acetone	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
71-43-2	Benzene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:09	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
74-83-9	Bromomethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
75-00-3	Chloroethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
74-87-3	Chloromethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**4.1**	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**25**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**18**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**22**		mg/kg dry	2.8	5.6	1000	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 14:37	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**11**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**11**		mg/kg dry	2.8	5.6	1000	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 14:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**2.2**	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**36**		mg/kg dry	0.56	1.1	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**4.0**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	**sec-Butylbenzene**	**4.2**		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
108-88-3	Toluene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723	11/15/2023 18:09	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
75-01-4	Vinyl Chloride	ND	CCVE, IS-HI	mg/kg dry	0.28	0.56	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:09	SS
1330-20-7	**Xylenes, Total**	**38**		mg/kg dry	0.84	1.7	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:09	SS

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*29.2 %*	IS-HI, S-03, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*120 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*130 %*	S-08	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Acetylcyclopentanone isomer**	**8.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Benzene cyclopropyl isomer**	**7.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Benzene ethyldimethyl isomer**	**5.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Cyclohexane dimethyl trans ...**	**9.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Cyclohexane ethyl isomer**	**6.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclohexanedione isomer**	**9.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Cyclopentane dimethyl cis i...**	**9.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Cyclopentane dimethyl isomer**	**7.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Cyclopentane ethyl isomer**	**5.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Cyclopentane methyl isomer**	**6.3**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Heptane methyl isomer**	**6.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Hexane methyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Hexane methylmethylene isomer**	**6.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Octane methyl isomer**	**5.6**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS
NA	**Pentane methyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:09	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0540**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:54	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:54	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 22:54	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:54	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:54	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:54	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:54	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 22:54	KH-

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**3.59**		mg/kg dry	0.121	0.241	5	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 10:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0702**	J	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.235**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.193	0.387	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.19**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**1.62**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**1.21**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**1.08**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**1.03**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**1.17**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.256**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	**Di-n-octyl phthalate**	**0.0887**	J, CAL-E	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0965	0.193	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
206-44-0	**Fluoranthene**	**1.99**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.101**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.26**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:54	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
91-20-3	**Naphthalene**	**6.47**		mg/kg dry	0.121	0.241	5	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/17/2023 10:24	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
85-01-8	**Phenanthrene**	**0.884**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:54	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 22:54	KH-
129-00-0	**Pyrene**	**2.42**		mg/kg dry	0.0484	0.0965	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 22:54	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*40.9 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*37.8 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.7 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*41.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*49.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*51.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0190	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 02:49	KH

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**						
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*61.6 %*		*39-127.5*						

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.130	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0621	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.123	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.210	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.202	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.196	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.222	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.224	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.191	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.147	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.121	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.173	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.227	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.128	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.171	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.182	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.224	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.697	0.891	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.885	0.900	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.128	0.938	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.163	0.417	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.226	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0727	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.113	0.469	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.184	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.697	0.879	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.713	0.938	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.365	0.886	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.288	0.877	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.204	0.886	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.198	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.145	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 17:58	ESJ

Sample Information

Client Sample ID: **23SP4 (12-14 ft)** **York Sample ID:** **23K0665-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.743	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.46	5.86	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.76	5.86	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.716	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.211	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.817	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 17:58	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*105 %*	*25-150*
Surrogate: M5PFHxA	*110 %*	*25-150*
Surrogate: M4PFHpA	*138 %*	*25-150*
Surrogate: M3PFHxS	*150 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*108 %*	*25-150*
Surrogate: M6PFDA	*137 %*	*25-150*
Surrogate: M7PFUdA	*142 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*118 %*	*25-150*
Surrogate: M2PFTeDA	*93.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.09 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*99.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*15.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*72.0 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*85.6 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*96.0 %*	*25-150*
Surrogate: M2-6:2 FTS	*73.9 %*	*25-200*
Surrogate: M2-8:2 FTS	*102 %*	*25-200*
Surrogate: M9PFNA	*110 %*	*25-150*
Surrogate: M2-4:2 FTS	*58.0 %*	*25-150*

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d-N-MeFOSA	*56.8 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*55.2 %*			*25-150*						
	Surrogate: M3HFPO-DA	*112 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*70.9 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*86.2 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 3.7**	**4.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 4.1**	**1.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 4.8**	**6.87**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 4.9**	**6.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 5.2**	**6.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 5.5**	**1.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Benzene Isomer RT 5.6**	**2.14**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Cyclohexane Isomer RT 4.0**	**1.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**3.72**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Ethyl Methyl Benzene Isomer...**	**7.47**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**methyl methylethyl Benzene ...**	**6.76**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Methyl Propyl Benzene Isome...**	**1.33**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Nonane RT 3.9**	**2.48**	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Propyl Benzene RT 4.4**	**5.99**	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Tetramethyl Benzene Isomer ...**	**1.23**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-
NA	**Trimethyl Benzene Isomer RT... (01)**	**5.79**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 22:54	KH-

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Trimethyl Benzene Isomer RT... (02)**	**26.0**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.6**	**3.54**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 4.2**	**1.67**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/16/2023 22:54	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	38.7	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.94	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.68	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	97.9	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*63.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*56.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:25	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8630**		mg/kg dry	4.90	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.45	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7440-38-2	**Arsenic**	**7.55**		mg/kg dry	1.47	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-39-3	**Barium**	**116**		mg/kg dry	2.45	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-41-7	Beryllium	ND		mg/kg dry	0.049	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7440-43-9	Cadmium	ND		mg/kg dry	0.294	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7440-70-2	**Calcium**	**20800**	B	mg/kg dry	4.90	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-47-3	**Chromium**	**18.6**		mg/kg dry	0.491	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-48-4	**Cobalt**	**8.87**		mg/kg dry	0.392	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-50-8	**Copper**	**40.9**		mg/kg dry	1.96	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7439-89-6	**Iron**	**40300**		mg/kg dry	24.5	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7439-92-1	**Lead**	**117**		mg/kg dry	0.491	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7439-95-4	**Magnesium**	**3880**		mg/kg dry	4.91	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7439-96-5	**Manganese**	**625**		mg/kg dry	0.491	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-02-0	**Nickel**	**19.9**		mg/kg dry	0.977	1	EPA 6010D Certifications:	11/13/2023 14:14	11/16/2023 17:00	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**2400**		mg/kg dry	4.91	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**7.15**		mg/kg dry	2.45	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.494	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	49.0	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.45	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**32.4**		mg/kg dry	0.977	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**43.6**		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:00	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.561**		mg/kg dry	0.0353	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.588	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**18.6**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP4 (12-14 ft) **York Sample ID:** 23K0665-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.588	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.0**		%	0.100	1	SM 2540G	11/14/2023 11:39	11/14/2023 16:05	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D	11/15/2023 09:00	11/15/2023 18:37	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	11/15/2023 18:37	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:37	SS
95-63-6	**1,2,4-Trimethylbenzene**	**16**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:37	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
108-67-8	**1,3,5-Trimethylbenzene**	**6.2**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:37	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	8.1	16	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:37	SS
78-93-3	2-Butanone	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
591-78-6	2-Hexanone	ND	ICVE, CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
67-64-1	Acetone	ND		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
107-02-8	Acrolein	ND		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
71-43-2	**Benzene**	**1.1**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:37	SS

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-66-3	Chloroform	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
110-82-7	**Cyclohexane**	**6.8**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
100-41-4	**Ethyl Benzene**	**5.0**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
98-82-8	**Isopropylbenzene**	**1.7**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
108-87-2	**Methylcyclohexane**	**19**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:37	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
104-51-8	**n-Butylbenzene**	**1.4**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:37	SS
103-65-1	**n-Propylbenzene**	**5.0**		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:37	SS
95-47-6	**o-Xylene**	**0.88**	QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/15/2023 18:37	SS
179601-23-1	**p- & m- Xylenes**	**8.5**		mg/kg dry	0.81	1.6	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/15/2023 18:37	SS
99-87-6	**p-Isopropyltoluene**	**0.58**	J	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:37	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:37	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
108-88-3	Toluene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723	11/15/2023 18:37	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:37	SS

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.41	0.81	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	**Xylenes, Total**	**9.4**		mg/kg dry	1.2	2.4	100	EPA 8260D Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*57.5 %*	S-03, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.7 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*100 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyldimethyl isomer**	**3.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclohexane dimethyl trans ...**	**3.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclohexane ethyl isomer**	**4.7**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclohexane trimethyl isomer**	**3.7**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Cyclopentane methyl isomer**	**3.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**deltacyclene isomer**	**4.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Heptane dimethyl isomer**	**5.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Heptane methyl isomer**	**6.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Hexane methyl isomer**	**3.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Indan methyl isomer**	**3.5**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Indene dihydromethyl isomer**	**4.1**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Nonane methyl isomer**	**2.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Octane isomer**	**7.5**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Octane methyl isomer**	**8.7**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Pentane methyl isomer**	**3.5**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS
NA	**Undecane dimethyl isomer**	**2.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/15/2023 09:00	11/15/2023 18:37	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:24	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:24	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:24	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:24	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:24	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:24	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:24	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/16/2023 23:24	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:24	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:24	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:24	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:24	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.111	0.221	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:24	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/16/2023 23:24	KH-

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**2.70**		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
62-53-3	Aniline	ND		mg/kg dry	0.222	0.444	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.222	0.444	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/16/2023 23:24	KH-
56-55-3	**Benzo(a)anthracene**	**0.0611**	J	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 23:24	KH-
50-32-8	**Benzo(a)pyrene**	**0.0602**	J	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 23:24	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:24	KH-

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-74-8	Carbazole	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**0.0611**	J	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	**Di-n-octyl phthalate**	**0.0682**	J, CAL-E	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
122-39-4	* Diphenylamine	ND		mg/kg dry	0.111	0.221	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
206-44-0	**Fluoranthene**	**0.133**		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**3.39**		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
85-01-8	**Phenanthrene**	**0.144**		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 23:24	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:24	KH-
129-00-0	**Pyrene**	**0.153**		mg/kg dry	0.0555	0.111	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/16/2023 23:24	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*50.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*66.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*56.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*67.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.3 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications:	11/15/2023 08:21 NELAC-NY10854	11/16/2023 03:06	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*62.9 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.148	0.235	1	EPA 1633 Draft 3 Certifications:	11/14/2023 13:45 NELAC-NH2097 ,NJDEP-NY037	11/17/2023 18:14	ESJ

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0705	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.140	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.238	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.229	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.222	0.247	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.251	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.254	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.263	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.217	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.166	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.137	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.197	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.258	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.145	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.194	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.206	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.254	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.792	1.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.00	1.02	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.145	1.06	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.185	0.474	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.257	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0825	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.128	0.532	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.209	0.250	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.792	0.998	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.809	1.06	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.414	1.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.327	0.995	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.231	1.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.225	0.258	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.165	0.255	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:14	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.843	1.33	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.79	6.65	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.00	6.65	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.813	2.66	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.239	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.927	2.66	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.263	0.266	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:14	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*70.7 %*	*25-150*
Surrogate: M5PFHxA	*104 %*	*25-150*
Surrogate: M4PFHpA	*120 %*	*25-150*
Surrogate: M3PFHxS	*160 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*123 %*	*25-150*
Surrogate: M6PFDA	*138 %*	*25-150*
Surrogate: M7PFUdA	*128 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*111 %*	*25-150*
Surrogate: M2PFTeDA	*92.3 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.01 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*140 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*5.87 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*90.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*101 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*101 %*	*25-150*
Surrogate: M2-6:2 FTS	*180 %*	*25-200*
Surrogate: M2-8:2 FTS	*185 %*	*25-200*
Surrogate: M9PFNA	*127 %*	*25-150*
Surrogate: M2-4:2 FTS	*76.2 %*	*25-150*
Surrogate: d-N-MeFOSA	*50.8 %*	*25-150*
Surrogate: d-N-EtFOSA	*52.0 %*	*25-150*
Surrogate: M3HFPO-DA	*106 %*	*25-150*
Surrogate: d9-N-EtFOSE	*77.6 %*	*25-150*
Surrogate: d7-N-MeFOSE	*88.4 %*	*25-150*

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	Benzene Isomer RT 3.7	1.51	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Benzene Isomer RT 4.9	1.93	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Benzene Isomer RT 5.5	1.99	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Benzene Isomer RT 5.6	2.50	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Benzene Isomer RT 6.1	1.01	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Diethyl Benzene Isomer RT 4.9	2.10	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Dimethyl Heptane Isomer RT 3.6	1.24	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Ethyl Dimethyl Benzene Isom... (01)	2.03	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Ethyl Dimethyl Benzene Isom... (02)	1.08	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Ethyl Methyl Benzene Isomer...	1.54	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	methyl methylethyl Benzene ...	3.44	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Propyl Benzene RT 4.4	2.06	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Tetramethyl Benzene Isomer ...	0.960	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Trimethyl Benzene Isomer RT... (01)	1.49	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Trimethyl Benzene Isomer RT... (02)	3.93	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Trimethyl Benzene Isomer RT... (03)	2.60	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Unknown RT 11.4	6.73	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-
NA	Unknown RT 12.2	2.16	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:24	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP4 (14-16 ft)** **York Sample ID:** **23K0665-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	43.8	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.19	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:31	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-44-8	Heptachlor	ND		ug/kg dry	2.19	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:31	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.19	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:31	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	11.0	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:31	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	111	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:31	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:38	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:38	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:38	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:38	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:38	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:38	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 10:38	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0221	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 10:38	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP4 (14-16 ft)** **York Sample ID:** **23K0665-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6300**		mg/kg dry	5.55	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.78	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.40**		mg/kg dry	1.67	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**139**		mg/kg dry	2.77	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.056	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.333	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**13400**	B	mg/kg dry	5.55	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**13.7**		mg/kg dry	0.556	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.05**		mg/kg dry	0.444	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**38.0**		mg/kg dry	2.22	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**10900**		mg/kg dry	27.8	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**358**		mg/kg dry	0.556	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**2500**		mg/kg dry	5.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**303**		mg/kg dry	0.556	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.8**		mg/kg dry	1.11	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1030**		mg/kg dry	5.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.78	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.560	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**558**		mg/kg dry	55.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.78	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**12.8**		mg/kg dry	1.11	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP4 (14-16 ft) **York Sample ID:** 23K0665-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 1:45 pm	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**31.8**		mg/kg dry	2.77	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:03	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**3.07**		mg/kg dry	0.0400	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.667	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**13.7**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.667**		mg/kg dry	0.667	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**75.0**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SS
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
95-63-6	**1,2,4-Trimethylbenzene**	**0.033**		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	**1,3,5-Trimethylbenzene**	**0.011**		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.045	0.089	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, ICVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.0045	0.0089	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND	ICVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**0.0080**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**0.0076**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**0.0028**	J	mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.050**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0045	0.0089	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	**n-Propylbenzene**	**0.0089**		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	o-Xylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.012**		mg/kg dry	0.0045	0.0089	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D	11/14/2023 09:00	11/14/2023 18:24	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	QL-02, ICVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0022	0.0045	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	**Xylenes, Total**	**0.012**	J	mg/kg dry	0.0067	0.013	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*70.9 %*	S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*91.5 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.8 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethenylmethyl isomer**	**0.011**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Benzene ethyldimethyl isomer**	**0.011**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Cyclohexane dimethyl trans ...**	**0.014**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclohexane ethyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Cyclopentane dimethyl trans...**	**0.010**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Cyclopentane methyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Heptane methyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Hexane ethyl isomer**	**0.016**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Hexane isomer**	**0.0099**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Hexane methyl isomer**	**0.019**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Indan methyl isomer**	**0.0091**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Octane isomer**	**0.019**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Octane methyl isomer**	**0.0098**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS
NA	**Pentane methyl isomer**	**0.018**	J	mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 18:24	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:54	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:54	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 23:54	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 23:54	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 23:54	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/16/2023 23:54	KH-

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
83-32-9	Acenaphthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
98-86-2	Acetophenone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.205	0.409	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH-
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
218-01-9	Chrysene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
122-39-4	* Diphenylamine	ND		mg/kg dry	0.102	0.204	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
85-01-8	Phenanthrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-
129-00-0	Pyrene	ND		mg/kg dry	0.0512	0.102	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 23:54	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*51.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*50.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*50.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.8 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*64.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*58.9 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP4 (27.5-30 ft)** **York Sample ID:** **23K0665-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 03:24	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*62.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.135	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0644	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.128	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.218	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.209	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.203	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.230	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.232	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.241	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.198	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.152	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.125	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.180	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.236	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.133	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.178	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.188	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.232	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.724	0.924	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.918	0.934	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.133	0.973	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.169	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.235	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0754	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.117	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.191	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.724	0.912	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.739	0.973	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.378	0.919	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.299	0.910	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.212	0.919	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.206	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.151	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 18:30	ESJ

Sample Information

Client Sample ID: **23SP4 (27.5-30 ft)** **York Sample ID:** **23K0665-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.771	1.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.55	6.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.82	6.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.743	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.219	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.848	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.241	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 18:30	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*46.0 %*	*25-150*
Surrogate: M5PFHxA	*86.8 %*	*25-150*
Surrogate: M4PFHpA	*139 %*	*25-150*
Surrogate: M3PFHxS	*138 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*111 %*	*25-150*
Surrogate: M6PFDA	*119 %*	*25-150*
Surrogate: M7PFUdA	*117 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*99.5 %*	*25-150*
Surrogate: M2PFTeDA	*76.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.47 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*103 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.85 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*91.5 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*93.7 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*85.4 %*	*25-150*
Surrogate: M2-6:2 FTS	*79.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*78.6 %*	*25-200*
Surrogate: M9PFNA	*118 %*	*25-150*
Surrogate: M2-4:2 FTS	*49.1 %*	*25-150*

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: d-N-MeFOSA	*59.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*52.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*84.3 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*70.1 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*73.4 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/16/2023 23:54	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-55-9	4,4'-DDE	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/kg dry	40.6	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/kg dry	2.03	5	EPA 8081B Certifications:	11/16/2023 08:29	11/17/2023 00:52	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
959-98-8	Endosulfan I	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.03	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	10.1	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	103	5	EPA 8081B	11/16/2023 08:29	11/17/2023 00:52	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*99.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0205	1	EPA 8082A	11/16/2023 08:29	11/17/2023 10:52	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8330**		mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.57	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.54	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**36.6**		mg/kg dry	2.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.052	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.308	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1750**	B	mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**20.8**		mg/kg dry	0.514	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.83**		mg/kg dry	0.411	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**18.9**		mg/kg dry	2.06	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**11300**		mg/kg dry	25.7	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**4.55**		mg/kg dry	0.514	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**3290**		mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**96.0**		mg/kg dry	0.514	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**13.0**		mg/kg dry	1.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2180**		mg/kg dry	5.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.57	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.518	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	51.4	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.57	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**20.5**		mg/kg dry	1.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**50.4**		mg/kg dry	2.56	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:06	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0370	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**1.04**		mg/kg dry	0.617	1	EPA 7196A	11/15/2023 14:24	11/15/2023 20:17	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP4 (27.5-30 ft) **York Sample ID:** 23K0665-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Soil	November 8, 2023 3:00 pm	11/09/2023

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**19.8**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.617	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications: NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044			

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.1**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K0665-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.427	1.61	1	EPA 1633 Draft 3	11/17/2023 14:46	11/17/2023 20:40	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.318	1.82	1	EPA 1633 Draft 3	11/17/2023 14:46	11/17/2023 20:40	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.645	1.82	1	EPA 1633 Draft 3	11/17/2023 14:46	11/17/2023 20:40	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.618	1.66	1	EPA 1633 Draft 3	11/17/2023 14:46	11/17/2023 20:40	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.381	1.82	1	EPA 1633 Draft 3	11/17/2023 14:46	11/17/2023 20:40	ESJ
								Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0665-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.745	1.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.472	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.681	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.03	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.799	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.672	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.627	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.717	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.935	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.209	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.799	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.826	1.73	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.20	1.75	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.963	6.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.86	6.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.300	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.454	3.23	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.94	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.227	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0665-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.336	3.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/17/2023 14:46	11/17/2023 20:40	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.690	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.63	6.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.93	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.25	6.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.636	6.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
919005-14-4	ADONA	ND		ng/L	0.481	6.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.845	1.76	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.781	1.74	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/17/2023 14:46	11/17/2023 20:40	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.84	4.54	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.66	22.7	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.60	22.7	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.62	18.2	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.43	1.82	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.62	18.2	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.63	1.82	1	EPA 1633 Draft 3 Certifications:	11/17/2023 14:46	11/17/2023 20:40	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*91.6 %*	*25-150*
Surrogate: M5PFHxA	*87.0 %*	*25-150*
Surrogate: M4PFHpA	*113 %*	*25-150*
Surrogate: M3PFHxS	*126 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*92.6 %*	*25-150*

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0665-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M6PFDA	*105 %*			*25-150*						
	Surrogate: M7PFUdA	*110 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*95.7 %*			*25-150*						
	Surrogate: M2PFTeDA	*54.3 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.565 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*92.0 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*12.8 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*80.3 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*61.9 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*62.8 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*60.2 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*63.8 %*			*25-200*						
	Surrogate: M9PFNA	*106 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*56.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*68.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*56.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*98.1 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*35.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*45.3 %*			*25-150*						

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0665-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0665-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 13:59	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 13:59	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 13:59	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 13:59	SMA
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0665-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 13:59	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
75-15-0	Carbon disulfide	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/14/2023 13:59	SMA

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0665-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23K0665-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0665	220293 100 East 149th St. Bronx, NY	Water	November 8, 2023 3:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/14/2023 13:59	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*111 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K0665-01	23SP3 (0-2.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-02	23SP3 (8-12 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-03	23SP3 (12-14 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-04	23SP3 (25-30 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-05	23SP4 (0-5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-06	23SP4 (12-14 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-07	23SP4 (14-16 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-08	23SP4 (27.5-30 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0665-10	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-Alk	The surrogate recoveries for the acid surrogates in the sample recovered below control limits due to a highly alkaline matrix present in the sample. This is common when concrete or mixtures containing concrete or limestone are encountered.
S-08	The recovery of this surrogate was outside of QC limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
N	The Tentatively Identified Compound reported indicates the presence of an possible analyte or class of analyte that has been 'tentatively identified' and the associated numerical value represents its estimated concentration.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-HI	The internal std associated with this target compound did not meet acceptance criteria (area >200% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: For sample 01, client only provided one stirbar vial. Limited volume for sample 01 volatile analyses.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0665

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

YOUR Information	Report To:	Invoice To:
Company: Tauchstone	Company: Tauchstone	Company: Tauchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 East 149th St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP3 (0-2.5ft) (0-2.5ft)	S	11/8/23 1100	TCL +10 VOCs and TICs EPA 8260C	2) 8oz Jars,	
23SP3 (8-12ft)	S	1115	TCL +20 SVOCs and TICs, Pesticides	4 vials,	
23SP3 (12-14ft)	S	1125	and PCBs, 21 PFAS compounds	1 Pfas	
23SP3 (25-30ft)	S	1140	Method 1633, 1,4 dioxane EPA		
23SP4 (0-5ft)		1130	8270 SIM, Full TAL metals		
23SP4 (12-14ft)		145	list + Cyanide and		
23SP4 (14-16ft)		145	hexavalent chromium		
23SP4 (27.5-30ft)					
Field Blank	O			2 vials	
Trip Blank	O			2 vials	

Comments: temperature frozen at Pg KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other: ____

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
[signature]	11/9/23 220 pm	K Bahyork	11/9/23 229pm	K Bahyork	11/9/23 18:15
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
[signature]					
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				[signature]	11/9/23 18:15 / 2.3 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 11/20/2023
Client Project ID: 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0672

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/20/2023
Client Project ID: 100 East 149th St. Bronx, NY
York Project (SDG) No.: 23K0672

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 09, 2023 and listed below. The project was identified as your project: **100 East 149th St. Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K0672-01	23SP2 (0-2.5)	Soil	11/07/2023	11/09/2023
23K0672-02	23SP2 (15-17.5)	Soil	11/07/2023	11/09/2023
23K0672-03	23SP2 (18-20)	Soil	11/07/2023	11/09/2023
23K0672-04	23SP2 (27.5-30)	Soil	11/07/2023	11/09/2023

General Notes for York Project (SDG) No.: 23K0672

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 11/20/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**0.061**		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**0.023**		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.051	0.10	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP2 (0-2.5)

York Sample ID: 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**0.0075**		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.049**		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**0.12**		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**0.012**		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.081**		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**0.0037**	J	mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**0.031**		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**0.0043**	J	mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.038**		mg/kg dry	0.0051	0.010	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**0.0080**		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.042**		mg/kg dry	0.0076	0.015	1	EPA 8260D	11/13/2023 09:00	11/13/2023 17:21	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP2 (0-2.5)

York Sample ID: 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*93.1 %*		*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*95.8 %*		*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene, ethyl isomer**	**0.020**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**cyclobutane isomer**	**0.025**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Cyclohexane, dimethyl isomer**	**0.0099**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Cyclohexene, methyl isomer**	**0.012**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Cyclopentane, methyl isomer**	**0.028**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Cyclopentene isomer**	**0.017**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Cyclopentene, methyl isomer**	**0.010**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Heptane isomer**	**0.011**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Hexane, methyl isomer (01)**	**0.0093**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Hexane, methyl isomer (02)**	**0.014**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**indane isomer**	**0.018**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Pentane, methyl isomer (01)**	**0.015**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Pentane, methyl isomer (02)**	**0.010**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF
NA	**Pentene, methyl isomer**	**0.010**	J	mg/kg dry			1	EPA 8260C Certifications:	11/13/2023 09:00	11/13/2023 17:21	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP2 (0-2.5)

York Sample ID: 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 00:24	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 00:24	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/17/2023 00:24	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 00:24	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/17/2023 00:24	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,PADEP-68-04440	11/17/2023 00:24	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 00:24	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 00:24	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 00:24	KH-

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.117**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.0931**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.184	0.367	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.372**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.184	0.367	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.09**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.973**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.798**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.555**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.757**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP2 (0-2.5)

York Sample ID: 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	**Carbazole**	**0.0938**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
218-01-9	**Chrysene**	**1.00**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.144**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	**Dibenzofuran**	**0.0711**	J	mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0917	0.183	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH-
206-44-0	**Fluoranthene**	**2.06**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.101**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.684**		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**1.63**		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**2.14**		mg/kg dry	0.0460	0.0917	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*51.2 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*51.9 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*53.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*59.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*68.0 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*64.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM	11/15/2023 08:21	11/16/2023 03:42	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*67.3 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.123	0.197	1	EPA 1633 Draft 3	11/14/2023 13:45	11/17/2023 22:01	ESJ
							Certifications:	NELAC-NH2097 ,NJDEP-NY037			

Sample Information

Client Sample ID: 23SP2 (0-2.5)

York Sample ID: 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0589	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.117	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.199	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.191	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.253**		ug/kg dry	0.186	0.207	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.210	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.212	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.220	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.181	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.139	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.115	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.165	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.216	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.121	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.162	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.172	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.212	0.215	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.662	0.845	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.839	0.854	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.121	0.889	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.155	0.396	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.215	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0689	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ

Sample Information

Client Sample ID: 23SP2 (0-2.5)

York Sample ID: 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.107	0.445	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.175	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.662	0.834	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.676	0.889	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.346	0.841	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.274	0.832	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.193	0.841	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.188	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.138	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:01	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.705	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.33	5.56	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.67	5.56	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.679	2.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.200	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.775	2.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.220	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:01	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*56.7 %*	*25-150*
Surrogate: M5PFHxA	*99.0 %*	*25-150*
Surrogate: M4PFHpA	*149 %*	*25-150*
Surrogate: M3PFHxS	*141 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*112 %*	*25-150*
Surrogate: M6PFDA	*148 %*	*25-150*
Surrogate: M7PFUdA	*128 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*124 %*	*25-150*
Surrogate: M2PFTeDA	*105 %*	*10-150*

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.27 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*132 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*9.18 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*72.4 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*90.6 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*96.4 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*90.7 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*109 %*			*25-200*						
	Surrogate: M9PFNA	*129 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*54.8 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*51.6 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*44.9 %*			*25-150*						
	Surrogate: M3HFPO-DA	*101 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*62.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*65.8 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:24	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.82	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 06:40	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.82	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 06:40	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.82	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 06:40	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.82	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 06:40	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.82	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 06:40	BCJ
5103-71-9	**alpha-Chlordane**	**2.45**		ug/kg dry	1.82	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/17/2023 06:40	BCJ

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	36.4	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	**gamma-Chlordane**	**2.80**		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
76-44-8	Heptachlor	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.82	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.10	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	92.1	5	EPA 8081B	11/16/2023 08:27	11/17/2023 06:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*69.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*59.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0184	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:11	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12300**		mg/kg dry	4.64	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.32	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**13.8**		mg/kg dry	1.39	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**151**		mg/kg dry	2.32	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.047	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**1.09**		mg/kg dry	0.279	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**61200**	B	mg/kg dry	4.64	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**24.8**		mg/kg dry	0.465	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**10.0**		mg/kg dry	0.371	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**88.7**		mg/kg dry	1.86	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**50600**		mg/kg dry	23.2	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**251**		mg/kg dry	0.465	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**37400**		mg/kg dry	4.65	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**403**		mg/kg dry	0.465	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**26.6**		mg/kg dry	0.925	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**4340**		mg/kg dry	4.65	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**7.61**		mg/kg dry	2.32	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.468	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1860**		mg/kg dry	46.4	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.32	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.0**		mg/kg dry	0.925	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**55.8**		mg/kg dry	2.31	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:09	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.583**		mg/kg dry	0.0334	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.557	1	EPA 7196A	11/16/2023 06:21	11/16/2023 13:29	VR
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**24.8**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP2 (0-2.5) **York Sample ID:** 23K0672-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:15 pm	11/09/2023

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.557	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.8**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
71-55-6	1,1,1-Trichloroethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-00-5	1,1,2-Trichloroethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-34-3	1,1-Dichloroethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-35-4	1,1-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
87-61-6	1,2,3-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
96-18-4	1,2,3-Trichloropropane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005			
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
							Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
95-63-6	**1,2,4-Trimethylbenzene**	**88**		mg/kg dry	0.59	1.2	200	EPA 8260D	11/14/2023 09:00	11/15/2023 19:20	SS
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C			

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, IS-LO, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	**1,3,5-Trimethylbenzene**	**45**		mg/kg dry	0.32	0.64	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 14:06 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
123-91-1	1,4-Dioxane	ND	IS-LO	mg/kg dry	0.059	0.12	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	**2-Butanone**	**0.013**	CCVE, IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
591-78-6	2-Hexanone	ND	IS-LO, QL-02, CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-64-1	**Acetone**	**0.066**	CCVE, ICVE, IS-LO	mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
107-02-8	Acrolein	ND	IS-LO	mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-13-1	Acrylonitrile	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	**Benzene**	**0.018**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
74-97-5	Bromochloromethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND	CCVE, IS-LO, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE, IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**0.22**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND	IS-LO, CCVE	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE, IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**34**		mg/kg dry	0.32	0.64	100	EPA 8260D	11/14/2023 09:00	11/15/2023 14:06	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**0.11**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**63**		mg/kg dry	0.59	1.2	200	EPA 8260D	11/14/2023 09:00	11/15/2023 19:20	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND	IS-LO	mg/kg dry	0.0059	0.012	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**0.080**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**0.37**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**0.048**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**0.37**	IS-LO	mg/kg dry	0.0059	0.012	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**0.028**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
135-98-8	**sec-Butylbenzene**	**0.043**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, IS-LO, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**0.048**	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, IS-LO, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND	CCVE, IS-LO, QL-02	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE, IS-LO	mg/kg dry	0.0029	0.0059	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**0.42**	IS-LO	mg/kg dry	0.0088	0.018	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*75.7 %*	IS-LO, S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.0 %*	IS-LO	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*86.3 %*	IS-LO	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**0.28**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Benzene dimethylpropyl isomer**	**0.17**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Benzene ethenyl ethyl isomer**	**1.1**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyl dimethyl isomer (01)**	**0.32**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Benzene ethyl dimethyl isomer (02)**	**0.74**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Benzene ethyl methyl isomer**	**0.59**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Benzene methyl propyl isomer**	**0.22**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Benzene tetramethyl isomer (01)**	**0.23**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Benzene tetramethyl isomer (02)**	**0.45**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Indane methyl isomer**	**0.61**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Indene dihydro dimethyl isomer**	**0.17**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Indene dihydro methyl isomer**	**0.61**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			
NA	**Naphthalene tetrahydro isomer**	**0.16**	J	mg/kg dry			1	EPA 8260C	11/14/2023 09:00	11/14/2023 13:57	SS
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.122	0.244	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.122	0.244	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP2 (15-17.5)

York Sample ID: 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.775**		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP2 (15-17.5)

York Sample ID: 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
62-53-3	Aniline	ND		mg/kg dry	0.245	0.490	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-12-7	Anthracene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.245	0.490	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH-
56-55-3	**Benzo(a)anthracene**	**0.0723**	J	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
50-32-8	**Benzo(a)pyrene**	**0.0665**	J	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
218-01-9	**Chrysene**	**0.0762**	J	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
122-39-4	* Diphenylamine	ND		mg/kg dry	0.122	0.244	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
206-44-0	**Fluoranthene**	**0.125**		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-20-3	**Naphthalene**	**1.08**		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
85-01-8	**Phenanthrene**	**0.139**		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
129-00-0	**Pyrene**	**0.180**		mg/kg dry	0.0613	0.122	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*59.2 %*	*20-108*

Sample Information

Client Sample ID: 23SP2 (15-17.5)

York Sample ID: 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13127-88-3	*Surrogate: SURR: Phenol-d6*	*55.6 %*			*23-114*						
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*65.0 %*			*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*61.7 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*72.4 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*68.7 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 03:59	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*72.6 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.166	0.265	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0795	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.157	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.268	0.274	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.258	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.597**		ug/kg dry	0.250	0.279	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.283	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.286	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.297	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.244	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.187	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.154	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.222	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.291	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.163	0.600	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.219	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.232	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.286	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.892	1.14	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.13	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.163	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.208	0.534	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.289	0.600	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0930	0.600	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.144	0.600	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.235	0.282	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.892	1.12	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.912	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.466	1.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.369	1.12	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.261	1.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.253	0.291	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.186	0.288	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 22:17	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.951	1.50	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.15	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.25	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.916	3.00	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.270	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.04	3.00	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.297	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 22:17	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*105 %*	*25-150*
Surrogate: M5PFHxA	*128 %*	*25-150*
Surrogate: M4PFHpA	*134 %*	*25-150*
Surrogate: M3PFHxS	*155 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*121 %*	*25-150*
Surrogate: M6PFDA	*148 %*	*25-150*
Surrogate: M7PFUdA	*138 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*108 %*	*25-150*
Surrogate: M2PFTeDA	*113 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.11 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*141 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*33.4 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*88.7 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*102 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*105 %*	*25-150*
Surrogate: M2-6:2 FTS	*133 %*	*25-200*
Surrogate: M2-8:2 FTS	*170 %*	*25-200*
Surrogate: M9PFNA	*140 %*	*25-150*
Surrogate: M2-4:2 FTS	*59.1 %*	*25-150*
Surrogate: d-N-MeFOSA	*62.9 %*	*25-150*
Surrogate: d-N-EtFOSA	*57.9 %*	*25-150*
Surrogate: M3HFPO-DA	*139 %*	*25-150*
Surrogate: d9-N-EtFOSE	*65.1 %*	*25-150*
Surrogate: d7-N-MeFOSE	*73.8 %*	*25-150*

Sample Information

Client Sample ID: 23SP2 (15-17.5)

York Sample ID: 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.9**	**1.15**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Benzene Isomer RT 5.3**	**1.06**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Benzene Isomer RT 5.4**	**1.69**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Benzene Isomer RT 5.5 (01)**	**1.24**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Benzene Isomer RT 5.5 (02)**	**3.24**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Benzene Isomer RT 5.6**	**3.05**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Benzene Isomer RT 6.1**	**1.25**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**2.74**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Ethyl Dimethyl Benzene Isom... (01)**	**4.67**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Ethyl Dimethyl Benzene Isom... (02)**	**2.61**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Methyl Nonane Isomer RT 4.4**	**1.45**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Methyl Propyl Benzene Isome...**	**1.33**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Propyl Benzene RT 4.3**	**2.23**	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Tetramethyl Benzene Isomer ...**	**1.49**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Trimethyl Benzene Isomer RT... (01)**	**1.39**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Trimethyl Benzene Isomer RT... (02)**	**3.92**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Trimethyl Benzene Isomer RT... (03)**	**1.80**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Unknown Hydrocarbon RT 3.6**	**1.70**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Unknown Hydrocarbon RT 3.7**	**1.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Unknown Hydrocarbon RT 5.1**	**1.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-
NA	**Unknown RT 4.9**	**1.11**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 00:54	KH-

Sample Information

Client Sample ID: 23SP2 (15-17.5)

York Sample ID: 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 6.0**	**1.05**	J	mg/kg dry			2	EPA 8270D	11/16/2023 08:12	11/17/2023 00:54	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	48.7	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.43	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	12.2	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	123	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:02	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*60.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0246	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:25	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14800**		mg/kg dry	6.27	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	3.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**3.73**		mg/kg dry	1.88	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**146**		mg/kg dry	3.13	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.063	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.376	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**10500**	B	mg/kg dry	6.27	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**21.9**		mg/kg dry	0.628	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.78**		mg/kg dry	0.501	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**24.0**		mg/kg dry	2.51	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**19500**		mg/kg dry	31.4	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**143**		mg/kg dry	0.628	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**7130**		mg/kg dry	6.28	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**261**		mg/kg dry	0.628	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.5**		mg/kg dry	1.25	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1400**		mg/kg dry	6.28	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.45**		mg/kg dry	3.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.632	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**440**		mg/kg dry	62.7	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.14	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**26.0**		mg/kg dry	1.25	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**51.5**		mg/kg dry	3.12	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP2 (15-17.5) **York Sample ID:** 23K0672-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 1:30 pm	11/09/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.537**		mg/kg dry	0.0452	1	EPA 7473	11/16/2023 14:05	11/17/2023 10:44	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.753	1	EPA 7196A	11/16/2023 06:21	11/16/2023 13:29	VR
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**21.9**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.753	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**66.4**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP2 (18-20)** **York Sample ID:** **23K0672-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**3.0**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, QL-02	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**1.1**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND		mg/kg dry	10	20	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND	CCVE	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	CCVE, QL-02	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND	CCVE	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP2 (18-20)** **York Sample ID:** **23K0672-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND	CCVE	mg/kg dry	1.0	2.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	1.0	2.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	**Benzene**	**2.0**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND	CCVE, QL-02	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**16**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**4.9**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**2.6**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND	CCVE	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**36**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		mg/kg dry	1.0	2.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**6.1**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	**n-Propylbenzene**	**10**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	**o-Xylene**	**0.53**	J	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**3.7**		mg/kg dry	1.0	2.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**0.96**	J	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	**sec-Butylbenzene**	**2.1**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**1.1**		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02, CCVE	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND	CCVE, QL-02	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.50	1.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**4.3**		mg/kg dry	1.5	3.0	100	EPA 8260D	11/14/2023 09:00	11/15/2023 13:40	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*80.2 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.9 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*90.2 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene, ethenyl ethyl isomer**	**20**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Benzene, ethyl dimethyl isomer**	**31**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Benzene, methyl butenyl isomer**	**15**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Benzene, methyl isomer**	**10**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Benzene, methyl methylpropy...**	**10**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Cyclohexane, dimethyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Heptane, dimethyl isomer (01)**	**9.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Heptane, dimethyl isomer (02)**	**15**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Heptane, methyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Hexane, methyl isomer (01)**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Hexane, methyl isomer (02)**	**14**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Indene, dihydro methyl isomer (01)**	**20**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Indene, dihydro methyl isomer (02)**	**34**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS
NA	**Pentane, methyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 13:40	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP2 (18-20)** **York Sample ID:** **23K0672-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,PADEP-68-04440	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,PADEP-68-04440	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,PADEP-68-04440	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**0.153**		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-

Sample Information

Client Sample ID: 23SP2 (18-20)

York Sample ID: 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.274	0.547	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.274	0.547	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.129**	J	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.125**	J	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.0951**	J	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.0809**	J	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.0885**	J	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP2 (18-20)

York Sample ID: 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**0.116**	J	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.137	0.273	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH-
206-44-0	**Fluoranthene**	**0.259**		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.101**	J	mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	**Naphthalene**	**0.320**		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.204**		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.255**		mg/kg dry	0.0685	0.137	2	EPA 8270D	11/16/2023 08:12	11/17/2023 01:24	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*70.3 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*68.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*76.3 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*76.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*91.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*93.5 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM	11/15/2023 08:21	11/16/2023 04:33	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*64.6 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.182	0.290	1	EPA 1633 Draft 3	11/14/2023 13:45	11/17/2023 23:06	ESJ
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		

Sample Information

Client Sample ID: **23SP2 (18-20)** **York Sample ID:** **23K0672-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0956**	J	ug/kg dry	0.0870	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.172	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.294	0.300	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.282	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.274	0.305	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.310	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.313	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.325	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.268	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.205	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.169	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.243	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.318	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.179	0.656	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.240	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.254	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.313	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.977	1.25	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.24	1.26	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.179	1.31	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.228	0.584	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.317	0.656	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.102	0.656	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ

Sample Information

Client Sample ID: 23SP2 (18-20)

York Sample ID: 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.158	0.656	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.258	0.309	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.977	1.23	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.998	1.31	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.510	1.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.404	1.23	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.286	1.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.277	0.318	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.204	0.315	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:06	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	1.04	1.64	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.44	8.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.46	8.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	1.00	3.28	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.295	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.14	3.28	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.325	0.328	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:06	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*101 %*	*25-150*
Surrogate: M5PFHxA	*114 %*	*25-150*
Surrogate: M4PFHpA	*128 %*	*25-150*
Surrogate: M3PFHxS	*137 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*109 %*	*25-150*
Surrogate: M6PFDA	*133 %*	*25-150*
Surrogate: M7PFUdA	*113 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*95.3 %*	*25-150*
Surrogate: M2PFTeDA	*85.2 %*	*10-150*

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.37 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*111 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*56.8 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*74.9 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*80.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*84.6 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*130 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*130 %*			*25-200*						
	Surrogate: M9PFNA	*108 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*49.7 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*50.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*53.6 %*			*25-150*						
	Surrogate: M3HFPO-DA	*130 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*54.1 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*56.8 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.5**	**1.74**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH-
NA	**Benzene Isomer RT 5.6**	**1.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**1.52**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH-
NA	**Unknown Hydrocarbon RT 3.6**	**1.14**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH-
NA	**Unknown Hydrocarbon RT 4.4**	**2.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH-
NA	**Unknown RT 5.0**	**1.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:24	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	54.1	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.70	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	13.5	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	137	5	EPA 8081B	11/16/2023 08:27	11/17/2023 07:24	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.8 %*	*30-150*

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*101 %*		*30-150*						

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0273	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:39	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8120**		mg/kg dry	6.85	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	3.43	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**24.0**		mg/kg dry	2.06	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**261**		mg/kg dry	3.42	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	**Beryllium**	**0.324**		mg/kg dry	0.069	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/kg dry	0.411	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**10700**	B	mg/kg dry	6.85	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**18.7**		mg/kg dry	0.686	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.08**		mg/kg dry	0.548	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**130**		mg/kg dry	2.74	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**13200**		mg/kg dry	34.3	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**539**		mg/kg dry	0.686	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**1770**		mg/kg dry	6.86	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**193**		mg/kg dry	0.686	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.9**		mg/kg dry	1.36	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**851**		mg/kg dry	6.86	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**6.59**		mg/kg dry	3.43	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	**Silver**	**30.5**		mg/kg dry	0.691	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-23-5	**Sodium**	**1980**		mg/kg dry	68.5	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.43	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	**Vanadium**	**28.7**		mg/kg dry	1.36	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**41.1**		mg/kg dry	3.41	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:23	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**26.5**		mg/kg dry	0.0493	1	EPA 7473	11/16/2023 14:18	11/17/2023 11:04	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP2 (18-20) **York Sample ID:** 23K0672-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:00 pm	11/09/2023

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.822	1	EPA 7196A	11/16/2023 06:21	11/16/2023 13:29	VR
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**18.7**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**1.23**		mg/kg dry	0.822	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**60.8**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D	11/14/2023 09:00	11/14/2023 14:50	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**0.0070**	QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.050	0.10	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.0074**	J, CCVE	mg/kg dry	0.0050	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
110-82-7	**Cyclohexane**	**0.0049**	J	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
124-48-1	Dibromochloromethane	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
100-41-4	**Ethyl Benzene**	**0.011**		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-87-2	**Methylcyclohexane**	**0.0054**		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	**n-Propylbenzene**	**0.0028**	J	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0050	0.010	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND	QL-02, CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0025	0.0050	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0075	0.015	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.0 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.8 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*81.4 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 14:50	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/17/2023 01:54	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/17/2023 01:54	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/17/2023 01:54	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/17/2023 01:54	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/17/2023 01:54	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/16/2023 08:12	11/17/2023 01:54	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/16/2023 08:12	11/17/2023 01:54	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/16/2023 08:12	11/17/2023 01:54	KH-

Sample Information

Client Sample ID: 23SP2 (27.5-30)

York Sample ID: 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.198	0.396	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.198	0.396	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND	CAL-E	mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	Chrysene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0988	0.197	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-73-7	Fluorene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	Phenanthrene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-95-2	Phenol	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	Pyrene	ND		mg/kg dry	0.0495	0.0988	2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*73.5 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*72.2 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*74.0 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*83.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*93.8 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*86.2 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/15/2023 08:21	11/16/2023 04:51	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*54.5 %*	*39-127.5*

Sample Information

Client Sample ID: 23SP2 (27.5-30)

York Sample ID: 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.133	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0637	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.126	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.215	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.207	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.201	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.227	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.230	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.238	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.196	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.150	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.124	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.178	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.233	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.131	0.481	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.176	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.186	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.230	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.715	0.914	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.908	0.924	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.131	0.962	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.167	0.428	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.232	0.481	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ

Sample Information

Client Sample ID: 23SP2 (27.5-30)

York Sample ID: 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0746	0.481	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.115	0.481	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.189	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.715	0.902	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.731	0.962	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.374	0.909	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.296	0.899	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
919005-14-4	* ADONA	ND		ug/kg dry	0.209	0.909	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.203	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.149	0.231	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/14/2023 13:45	11/17/2023 23:22	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.762	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.52	6.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.80	6.01	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.735	2.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.216	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.838	2.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.238	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/14/2023 13:45	11/17/2023 23:22	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*74.5 %*	*25-150*
Surrogate: M5PFHxA	*103 %*	*25-150*
Surrogate: M4PFHpA	*144 %*	*25-150*
Surrogate: M3PFHxS	*161 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*121 %*	*25-150*
Surrogate: M6PFDA	*133 %*	*25-150*
Surrogate: M7PFUdA	*131 %*	*25-150*

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*122 %*			*25-150*						
	Surrogate: M2PFTeDA	*83.7 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.46 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*97.0 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.80 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*83.4 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*76.7 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*75.6 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*77.1 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*79.4 %*			*25-200*						
	Surrogate: M9PFNA	*123 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*61.2 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*58.2 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*59.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*105 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*49.8 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*53.9 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/16/2023 08:12	11/17/2023 01:54	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:29	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:29	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:29	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:27 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:29	BCJ

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	38.6	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.65	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	97.7	5	EPA 8081B	11/16/2023 08:27	11/17/2023 08:29	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:27	11/17/2023 13:52	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*66.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10200**		mg/kg dry	5.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.51	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.62**		mg/kg dry	1.51	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**39.1**		mg/kg dry	2.51	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.301	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1040**	B	mg/kg dry	5.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**23.2**		mg/kg dry	0.502	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.53**		mg/kg dry	0.401	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**15.6**		mg/kg dry	2.01	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**13900**		mg/kg dry	25.1	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**8.29**		mg/kg dry	0.502	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4530**		mg/kg dry	5.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**118**		mg/kg dry	0.502	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**16.6**		mg/kg dry	1.00	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2320**		mg/kg dry	5.02	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.97**		mg/kg dry	2.51	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.506	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	50.2	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.51	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**23.7**		mg/kg dry	1.00	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**55.7**		mg/kg dry	2.50	1	EPA 6010D	11/13/2023 14:14	11/16/2023 17:26	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0375**		mg/kg dry	0.0361	1	EPA 7473	11/16/2023 14:18	11/17/2023 11:04	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.602	1	EPA 7196A	11/16/2023 06:21	11/16/2023 13:29	VR
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23SP2 (27.5-30) **York Sample ID:** 23K0672-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0672	100 East 149th St. Bronx, NY	Soil	November 7, 2023 2:30 pm	11/09/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**23.2**		mg/kg	0.500	1	Calculation	11/17/2023 07:12	11/17/2023 09:33	VR
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.602	1	EPA 9014/9010C	11/15/2023 14:34	11/15/2023 23:11	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**83.0**		%	0.100	1	SM 2540G	11/14/2023 11:43	11/14/2023 16:15	sgs
							Certifications:	CTDOH-PH-0723		

Analytical Batch Summary

Batch ID: BK30785 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/13/23
BK30785-BLK1	Blank	11/13/23
BK30785-BLK2	Blank	11/13/23
BK30785-BS1	LCS	11/13/23
BK30785-BSD1	LCS Dup	11/13/23

Batch ID: BK30823 **Preparation Method:** EPA 3050B **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/13/23
23K0672-02	23SP2 (15-17.5)	11/13/23
23K0672-03	23SP2 (18-20)	11/13/23
23K0672-04	23SP2 (27.5-30)	11/13/23
BK30823-BLK1	Blank	11/13/23
BK30823-DUP1	Duplicate	11/13/23
BK30823-MS1	Matrix Spike	11/13/23
BK30823-PS1	Post Spike	11/13/23
BK30823-SRM1	Reference	11/13/23

Batch ID: BK30860 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-02	23SP2 (15-17.5)	11/14/23
23K0672-02RE1	23SP2 (15-17.5)	11/14/23
23K0672-02RE2	23SP2 (15-17.5)	11/14/23
23K0672-04	23SP2 (27.5-30)	11/14/23
BK30860-BLK1	Blank	11/14/23
BK30860-BLK2	Blank	11/14/23
BK30860-BS1	LCS	11/14/23
BK30860-BSD1	LCS Dup	11/14/23

Batch ID: BK30903 **Preparation Method:** % Solids Prep **Prepared By:** sgs

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/14/23
23K0672-02	23SP2 (15-17.5)	11/14/23
23K0672-03	23SP2 (18-20)	11/14/23
23K0672-04	23SP2 (27.5-30)	11/14/23
BK30903-DUP1	Duplicate	11/14/23

Batch ID: BK30912 **Preparation Method:** EPA 1633 Prep **Prepared By:** WJH

YORK Sample ID	Client Sample ID	Preparation Date

23K0672-01	23SP2 (0-2.5)	11/14/23
23K0672-02	23SP2 (15-17.5)	11/14/23
23K0672-03	23SP2 (18-20)	11/14/23
23K0672-04	23SP2 (27.5-30)	11/14/23
BK30912-BLK1	Blank	11/14/23
BK30912-BS1	LCS	11/14/23
BK30912-BS2	LCS	11/14/23
BK30912-MS1	Matrix Spike	11/14/23
BK30912-MS2	Matrix Spike	11/14/23
BK30912-MSD1	Matrix Spike Dup	11/14/23
BK30912-MSD2	Matrix Spike Dup	11/14/23

Batch ID: BK30917 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-02RE1	23SP2 (15-17.5)	11/14/23
23K0672-02RE2	23SP2 (15-17.5)	11/14/23
23K0672-03	23SP2 (18-20)	11/14/23
BK30917-BLK1	Blank	11/14/23
BK30917-BLK2	Blank	11/14/23
BK30917-BS1	LCS	11/14/23
BK30917-BSD1	LCS Dup	11/14/23
BK30917-MS1	Matrix Spike	11/14/23
BK30917-MSD1	Matrix Spike Dup	11/14/23

Batch ID: BK30961 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/15/23
23K0672-02	23SP2 (15-17.5)	11/15/23
23K0672-03	23SP2 (18-20)	11/15/23
23K0672-04	23SP2 (27.5-30)	11/15/23
BK30961-BLK1	Blank	11/15/23
BK30961-BS1	LCS	11/15/23
BK30961-MS1	Matrix Spike	11/15/23
BK30961-MS2	Matrix Spike	11/15/23
BK30961-MSD1	Matrix Spike Dup	11/15/23
BK30961-MSD2	Matrix Spike Dup	11/15/23

Batch ID: BK31003 **Preparation Method:** Analysis Preparation Soil **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/15/23
23K0672-02	23SP2 (15-17.5)	11/15/23
23K0672-03	23SP2 (18-20)	11/15/23
23K0672-04	23SP2 (27.5-30)	11/15/23
BK31003-BLK1	Blank	11/15/23
BK31003-DUP1	Duplicate	11/15/23
BK31003-MS1	Matrix Spike	11/15/23
BK31003-MSD1	Matrix Spike Dup	11/15/23

BK31003-SRM1	Reference	11/15/23

Batch ID: BK31033 **Preparation Method:** EPA SW846-3060 **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/16/23
23K0672-02	23SP2 (15-17.5)	11/16/23
23K0672-03	23SP2 (18-20)	11/16/23
23K0672-04	23SP2 (27.5-30)	11/16/23
BK31033-BLK1	Blank	11/16/23
BK31033-DUP1	Duplicate	11/16/23
BK31033-DUP2	Duplicate	11/16/23
BK31033-MS1	Matrix Spike	11/16/23
BK31033-MS2	Matrix Spike	11/16/23
BK31033-MSD1	Matrix Spike Dup	11/16/23
BK31033-MSD2	Matrix Spike Dup	11/16/23
BK31033-SRM1	Reference	11/16/23
BK31033-SRM2	Reference	11/16/23

Batch ID: BK31053 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/16/23
23K0672-01	23SP2 (0-2.5)	11/16/23
23K0672-02	23SP2 (15-17.5)	11/16/23
23K0672-02	23SP2 (15-17.5)	11/16/23
23K0672-03	23SP2 (18-20)	11/16/23
23K0672-03	23SP2 (18-20)	11/16/23
23K0672-04	23SP2 (27.5-30)	11/16/23
23K0672-04	23SP2 (27.5-30)	11/16/23
BK31053-BLK1	Blank	11/16/23
BK31053-BS1	LCS	11/16/23
BK31053-MS1	Matrix Spike	11/16/23
BK31053-MSD1	Matrix Spike Dup	11/16/23

Batch ID: BK31062 **Preparation Method:** EPA 3550C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/16/23
23K0672-01	23SP2 (0-2.5)	11/16/23
23K0672-02	23SP2 (15-17.5)	11/16/23
23K0672-02	23SP2 (15-17.5)	11/16/23
23K0672-03	23SP2 (18-20)	11/16/23
23K0672-03	23SP2 (18-20)	11/16/23
23K0672-04	23SP2 (27.5-30)	11/16/23
23K0672-04	23SP2 (27.5-30)	11/16/23
BK31062-BLK1	Blank	11/16/23
BK31062-BLK2	Blank	11/16/23
BK31062-BS1	LCS	11/16/23
BK31062-BS2	LCS	11/16/23

BK31062-MS1	Matrix Spike	11/16/23
BK31062-MS2	Matrix Spike	11/16/23
BK31062-MSD1	Matrix Spike Dup	11/16/23
BK31062-MSD2	Matrix Spike Dup	11/16/23

Batch ID: BK31084 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/16/23
23K0672-02	23SP2 (15-17.5)	11/16/23
BK31084-BLK1	Blank	11/16/23
BK31084-DUP1	Duplicate	11/16/23
BK31084-MS1	Matrix Spike	11/16/23
BK31084-SRM1	Reference	11/16/23

Batch ID: BK31085 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-03	23SP2 (18-20)	11/16/23
23K0672-04	23SP2 (27.5-30)	11/16/23
BK31085-BLK1	Blank	11/16/23
BK31085-DUP1	Duplicate	11/16/23
BK31085-MS1	Matrix Spike	11/16/23
BK31085-SRM1	Reference	11/16/23

Batch ID: BK31120 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23K0672-01	23SP2 (0-2.5)	11/17/23
23K0672-02	23SP2 (15-17.5)	11/17/23
23K0672-03	23SP2 (18-20)	11/17/23
23K0672-04	23SP2 (27.5-30)	11/17/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30785 - EPA 5035A											
Blank (BK30785-BLK1)									Prepared & Analyzed: 11/13/2023		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30785 - EPA 5035A											
Blank (BK30785-BLK1)										Prepared & Analyzed: 11/13/2023	
Methylcyclohexane	ND	0.0050	mg/kg wet								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.6*		*ug/L*	*50.0*		*105*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.5*		*"*	*50.0*		*103*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.6*		*"*	*50.0*		*95.1*	*76-130*				
Blank (BK30785-BLK2)										Prepared & Analyzed: 11/13/2023	
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30785 - EPA 5035A											
Blank (BK30785-BLK2)									Prepared & Analyzed: 11/13/2023		
Acrolein	ND	1.0	mg/kg wet								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.6*		*ug/L*	*50.0*		*105*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.7*		*"*	*50.0*		*103*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.0*		*"*	*50.0*		*95.9*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BK30785 - EPA 5035A

LCS (BK30785-BS1) Prepared & Analyzed: 11/13/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129				
1,1,1-Trichloroethane	48		"	50.0		95.4	71-137				
1,1,2,2-Tetrachloroethane	55		"	50.0		110	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.2	58-146				
1,1,2-Trichloroethane	52		"	50.0		103	83-123				
1,1-Dichloroethane	45		"	50.0		89.4	75-130				
1,1-Dichloroethylene	46		"	50.0		92.1	64-137				
1,2,3-Trichlorobenzene	53		"	50.0		106	81-140				
1,2,3-Trichloropropane	56		"	50.0		113	81-126				
1,2,4-Trichlorobenzene	52		"	50.0		103	80-141				
1,2,4-Trimethylbenzene	52		"	50.0		105	84-125				
1,2-Dibromo-3-chloropropane	56		"	50.0		112	74-142				
1,2-Dibromoethane	54		"	50.0		108	86-123				
1,2-Dichlorobenzene	54		"	50.0		109	85-122				
1,2-Dichloroethane	48		"	50.0		96.6	71-133				
1,2-Dichloropropane	49		"	50.0		97.1	81-122				
1,3,5-Trimethylbenzene	51		"	50.0		103	82-126				
1,3-Dichlorobenzene	53		"	50.0		106	84-124				
1,4-Dichlorobenzene	53		"	50.0		105	84-124				
1,4-Dioxane	510		"	1050		49.0	10-228				
2-Butanone	47		"	50.0		93.6	58-147				
2-Hexanone	50		"	50.0		99.4	70-139				
4-Methyl-2-pentanone	52		"	50.0		103	72-132				
Acetone	32		"	50.0		64.4	36-155				
Acrolein	53		"	50.0		106	10-238				
Acrylonitrile	49		"	50.0		97.2	66-141				
Benzene	47		"	50.0		93.5	77-127				
Bromochloromethane	45		"	50.0		90.7	74-129				
Bromodichloromethane	50		"	50.0		99.0	81-124				
Bromoform	58		"	50.0		116	80-136				
Bromomethane	53		"	50.0		107	32-177				
Carbon disulfide	47		"	50.0		94.8	10-136				
Carbon tetrachloride	48		"	50.0		96.7	66-143				
Chlorobenzene	55		"	50.0		110	86-120				
Chloroethane	52		"	50.0		105	51-142				
Chloroform	47		"	50.0		94.6	76-131				
Chloromethane	50		"	50.0		100	49-132				
cis-1,2-Dichloroethylene	45		"	50.0		90.1	74-132				
cis-1,3-Dichloropropylene	48		"	50.0		96.7	81-129				
Cyclohexane	45		"	50.0		89.6	70-130				
Dibromochloromethane	52		"	50.0		105	10-200				
Dibromomethane	51		"	50.0		103	83-124				
Dichlorodifluoromethane	59		"	50.0		118	28-158				
Ethyl Benzene	51		"	50.0		103	84-125				
Hexachlorobutadiene	54		"	50.0		107	83-133				
Isopropylbenzene	53		"	50.0		105	81-127				
Methyl acetate	44		"	50.0		87.6	41-143				
Methyl tert-butyl ether (MTBE)	46		"	50.0		91.9	74-131				
Methylcyclohexane	49		"	50.0		97.0	70-130				
Methylene chloride	43		"	50.0		85.3	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30785 - EPA 5035A											
LCS (BK30785-BS1)								Prepared & Analyzed: 11/13/2023			
n-Butylbenzene	52		ug/L	50.0		105	80-130				
n-Propylbenzene	52		"	50.0		104	74-136				
o-Xylene	52		"	50.0		105	83-123				
p- & m- Xylenes	100		"	100		104	82-128				
p-Isopropyltoluene	53		"	50.0		106	85-125				
sec-Butylbenzene	53		"	50.0		107	83-125				
Styrene	53		"	50.0		106	86-126				
tert-Butyl alcohol (TBA)	260		"	250		105	70-130				
tert-Butylbenzene	54		"	50.0		107	80-127				
Tetrachloroethylene	40		"	50.0		79.6	80-129	Low Bias			
Toluene	51		"	50.0		102	85-121				
trans-1,2-Dichloroethylene	45		"	50.0		90.9	72-132				
trans-1,3-Dichloropropylene	49		"	50.0		98.4	78-132				
trans-1,4-dichloro-2-butene	55		"	50.0		109	75-135				
Trichloroethylene	50		"	50.0		99.0	84-123				
Trichlorofluoromethane	55		"	50.0		110	62-140				
Vinyl Chloride	50		"	50.0		100	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.2*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*52.3*		*"*	*50.0*		*105*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*46.9*		*"*	*50.0*		*93.9*	*76-130*				
LCS Dup (BK30785-BSD1)								Prepared & Analyzed: 11/13/2023			
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		106	75-129		1.46	30	
1,1,1-Trichloroethane	50		"	50.0		99.3	71-137		3.99	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	79-129		2.48	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	58-146		3.93	30	
1,1,2-Trichloroethane	51		"	50.0		101	83-123		1.84	30	
1,1-Dichloroethane	47		"	50.0		93.1	75-130		4.03	30	
1,1-Dichloroethylene	48		"	50.0		96.1	64-137		4.25	30	
1,2,3-Trichlorobenzene	53		"	50.0		106	81-140		0.227	30	
1,2,3-Trichloropropane	54		"	50.0		108	81-126		4.60	30	
1,2,4-Trichlorobenzene	53		"	50.0		105	80-141		1.94	30	
1,2,4-Trimethylbenzene	54		"	50.0		108	84-125		3.24	30	
1,2-Dibromo-3-chloropropane	53		"	50.0		105	74-142		5.97	30	
1,2-Dibromoethane	54		"	50.0		107	86-123		0.652	30	
1,2-Dichlorobenzene	55		"	50.0		111	85-122		1.92	30	
1,2-Dichloroethane	49		"	50.0		98.0	71-133		1.50	30	
1,2-Dichloropropane	50		"	50.0		99.1	81-122		1.98	30	
1,3,5-Trimethylbenzene	53		"	50.0		106	82-126		3.08	30	
1,3-Dichlorobenzene	55		"	50.0		110	84-124		3.31	30	
1,4-Dichlorobenzene	54		"	50.0		109	84-124		3.05	30	
1,4-Dioxane	440		"	1050		42.0	10-228		15.5	30	
2-Butanone	45		"	50.0		89.8	58-147		4.14	30	
2-Hexanone	46		"	50.0		91.9	70-139		7.92	30	
4-Methyl-2-pentanone	49		"	50.0		98.6	72-132		4.73	30	
Acetone	31		"	50.0		61.6	36-155		4.32	30	
Acrolein	51		"	50.0		102	10-238		4.20	30	
Acrylonitrile	45		"	50.0		90.5	66-141		7.12	30	
Benzene	49		"	50.0		97.2	77-127		3.88	30	
Bromochloromethane	46		"	50.0		92.6	74-129		2.12	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30785 - EPA 5035A											
LCS Dup (BK30785-BSD1)								Prepared & Analyzed: 11/13/2023			
Bromodichloromethane	50		ug/L	50.0		100	81-124		1.38	30	
Bromoform	56		"	50.0		112	80-136		3.47	30	
Bromomethane	56		"	50.0		112	32-177		4.60	30	
Carbon disulfide	49		"	50.0		98.3	10-136		3.63	30	
Carbon tetrachloride	51		"	50.0		101	66-143		4.61	30	
Chlorobenzene	55		"	50.0		111	86-120		1.25	30	
Chloroethane	54		"	50.0		109	51-142		3.66	30	
Chloroform	49		"	50.0		98.4	76-131		3.92	30	
Chloromethane	52		"	50.0		104	49-132		3.32	30	
cis-1,2-Dichloroethylene	47		"	50.0		94.8	74-132		5.17	30	
cis-1,3-Dichloropropylene	49		"	50.0		98.3	81-129		1.60	30	
Cyclohexane	46		"	50.0		92.6	70-130		3.27	30	
Dibromochloromethane	52		"	50.0		104	10-200		0.594	30	
Dibromomethane	51		"	50.0		103	83-124		0.00	30	
Dichlorodifluoromethane	59		"	50.0		117	28-158		0.358	30	
Ethyl Benzene	52		"	50.0		105	84-125		1.89	30	
Hexachlorobutadiene	54		"	50.0		108	83-133		1.13	30	
Isopropylbenzene	54		"	50.0		108	81-127		2.71	30	
Methyl acetate	42		"	50.0		84.5	41-143		3.58	30	
Methyl tert-butyl ether (MTBE)	47		"	50.0		94.0	74-131		2.22	30	
Methylcyclohexane	49		"	50.0		98.6	70-130		1.57	30	
Methylene chloride	44		"	50.0		87.8	57-141		2.87	30	
n-Butylbenzene	54		"	50.0		108	80-130		2.87	30	
n-Propylbenzene	53		"	50.0		107	74-136		2.91	30	
o-Xylene	53		"	50.0		107	83-123		1.84	30	
p- & m- Xylenes	110		"	100		105	82-128		1.44	30	
p-Isopropyltoluene	55		"	50.0		110	85-125		3.06	30	
sec-Butylbenzene	55		"	50.0		109	83-125		2.48	30	
Styrene	54		"	50.0		107	86-126		1.01	30	
tert-Butyl alcohol (TBA)	240		"	250		94.8	70-130		10.5	30	
tert-Butylbenzene	55		"	50.0		110	80-127		2.78	30	
Tetrachloroethylene	40		"	50.0		80.4	80-129		0.975	30	
Toluene	52		"	50.0		104	85-121		1.58	30	
trans-1,2-Dichloroethylene	47		"	50.0		94.7	72-132		4.12	30	
trans-1,3-Dichloropropylene	49		"	50.0		98.5	78-132		0.163	30	
trans-1,4-dichloro-2-butene	53		"	50.0		106	75-135		2.47	30	
Trichloroethylene	51		"	50.0		102	84-123		2.57	30	
Trichlorofluoromethane	57		"	50.0		114	62-140		3.58	30	
Vinyl Chloride	52		"	50.0		105	52-130		4.29	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.2*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.7*		*"*	*50.0*		*103*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.6*		*"*	*50.0*		*95.2*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30860 - EPA 5035A											
Blank (BK30860-BLK1)											Prepared & Analyzed: 11/14/2023
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30860 - EPA 5035A											
Blank (BK30860-BLK1)									Prepared & Analyzed: 11/14/2023		
Methylene chloride	ND	0.010	mg/kg wet								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.3*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.5*		*"*	*50.0*		*101*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*40.9*		*"*	*50.0*		*81.8*	*76-130*				
Blank (BK30860-BLK2)									Prepared & Analyzed: 11/14/2023		
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30860 - EPA 5035A											
Blank (BK30860-BLK2)									Prepared & Analyzed: 11/14/2023		
Acrylonitrile	ND	0.50	mg/kg wet								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.7*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.4*		*"*	*50.0*		*101*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.5*		*"*	*50.0*		*83.0*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BK30860 - EPA 5035A

LCS (BK30860-BS1) Prepared & Analyzed: 11/14/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.4	75-129				
1,1,1-Trichloroethane	42		"	50.0		84.8	71-137				
1,1,2,2-Tetrachloroethane	42		"	50.0		84.1	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	46		"	50.0		91.1	58-146				
1,1,2-Trichloroethane	45		"	50.0		89.1	83-123				
1,1-Dichloroethane	41		"	50.0		82.2	75-130				
1,1-Dichloroethylene	42		"	50.0		84.8	64-137				
1,2,3-Trichlorobenzene	46		"	50.0		91.2	81-140				
1,2,3-Trichloropropane	42		"	50.0		83.9	81-126				
1,2,4-Trichlorobenzene	44		"	50.0		88.0	80-141				
1,2,4-Trimethylbenzene	42		"	50.0		84.0	84-125				
1,2-Dibromo-3-chloropropane	32		"	50.0		64.1	74-142	Low Bias			
1,2-Dibromoethane	46		"	50.0		92.1	86-123				
1,2-Dichlorobenzene	48		"	50.0		95.5	85-122				
1,2-Dichloroethane	42		"	50.0		84.0	71-133				
1,2-Dichloropropane	42		"	50.0		84.0	81-122				
1,3,5-Trimethylbenzene	42		"	50.0		83.1	82-126				
1,3-Dichlorobenzene	47		"	50.0		94.0	84-124				
1,4-Dichlorobenzene	47		"	50.0		93.5	84-124				
1,4-Dioxane	410		"	1050		39.0	10-228				
2-Butanone	35		"	50.0		69.0	58-147				
2-Hexanone	30		"	50.0		60.5	70-139	Low Bias			
4-Methyl-2-pentanone	38		"	50.0		75.6	72-132				
Acetone	28		"	50.0		56.1	36-155				
Acrolein	46		"	50.0		91.3	10-238				
Acrylonitrile	43		"	50.0		85.1	66-141				
Benzene	44		"	50.0		88.1	77-127				
Bromochloromethane	41		"	50.0		81.1	74-129				
Bromodichloromethane	37		"	50.0		74.0	81-124	Low Bias			
Bromoform	41		"	50.0		81.4	80-136				
Bromomethane	45		"	50.0		89.5	32-177				
Carbon disulfide	45		"	50.0		89.1	10-136				
Carbon tetrachloride	45		"	50.0		90.4	66-143				
Chlorobenzene	48		"	50.0		97.0	86-120				
Chloroethane	42		"	50.0		84.4	51-142				
Chloroform	43		"	50.0		86.1	76-131				
Chloromethane	43		"	50.0		85.3	49-132				
cis-1,2-Dichloroethylene	41		"	50.0		81.8	74-132				
cis-1,3-Dichloropropylene	41		"	50.0		82.1	81-129				
Cyclohexane	41		"	50.0		81.5	70-130				
Dibromochloromethane	39		"	50.0		78.5	10-200				
Dibromomethane	44		"	50.0		87.3	83-124				
Dichlorodifluoromethane	46		"	50.0		92.2	28-158				
Ethyl Benzene	44		"	50.0		88.8	84-125				
Hexachlorobutadiene	44		"	50.0		89.0	83-133				
Isopropylbenzene	42		"	50.0		83.3	81-127				
Methyl acetate	36		"	50.0		72.6	41-143				
Methyl tert-butyl ether (MTBE)	39		"	50.0		78.2	74-131				
Methylcyclohexane	42		"	50.0		83.1	70-130				
Methylene chloride	41		"	50.0		82.8	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30860 - EPA 5035A											
LCS (BK30860-BS1)								Prepared & Analyzed: 11/14/2023			
n-Butylbenzene	40		ug/L	50.0		80.9	80-130				
n-Propylbenzene	41		"	50.0		81.2	74-136				
o-Xylene	45		"	50.0		89.5	83-123				
p- & m- Xylenes	90		"	100		90.3	82-128				
p-Isopropyltoluene	43		"	50.0		87.0	85-125				
sec-Butylbenzene	43		"	50.0		85.4	83-125				
Styrene	47		"	50.0		94.2	86-126				
tert-Butyl alcohol (TBA)	170		"	250		69.4	70-130	Low Bias			
tert-Butylbenzene	43		"	50.0		85.9	80-127				
Tetrachloroethylene	41		"	50.0		81.2	80-129				
Toluene	44		"	50.0		88.0	85-121				
trans-1,2-Dichloroethylene	42		"	50.0		83.8	72-132				
trans-1,3-Dichloropropylene	35		"	50.0		70.6	78-132	Low Bias			
trans-1,4-dichloro-2-butene	36		"	50.0		71.7	75-135	Low Bias			
Trichloroethylene	43		"	50.0		86.4	84-123				
Trichlorofluoromethane	46		"	50.0		91.3	62-140				
Vinyl Chloride	43		"	50.0		85.1	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.3*		*"*	*50.0*		*98.6*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.3*		*"*	*50.0*		*101*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.1*		*"*	*50.0*		*82.3*	*76-130*				
LCS Dup (BK30860-BSD1)								Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		103	75-129		7.91	30	
1,1,1-Trichloroethane	46		"	50.0		91.9	71-137		8.08	30	
1,1,2,2-Tetrachloroethane	45		"	50.0		90.1	79-129		6.89	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0		101	58-146		9.99	30	
1,1,2-Trichloroethane	48		"	50.0		95.0	83-123		6.45	30	
1,1-Dichloroethane	44		"	50.0		88.9	75-130		7.85	30	
1,1-Dichloroethylene	45		"	50.0		90.8	64-137		6.88	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.6	81-140		6.78	30	
1,2,3-Trichloropropane	45		"	50.0		90.0	81-126		6.95	30	
1,2,4-Trichlorobenzene	47		"	50.0		93.5	80-141		6.04	30	
1,2,4-Trimethylbenzene	45		"	50.0		90.9	84-125		7.94	30	
1,2-Dibromo-3-chloropropane	35		"	50.0		69.3	74-142	Low Bias	7.74	30	
1,2-Dibromoethane	50		"	50.0		99.7	86-123		7.97	30	
1,2-Dichlorobenzene	51		"	50.0		102	85-122		6.84	30	
1,2-Dichloroethane	45		"	50.0		90.4	71-133		7.30	30	
1,2-Dichloropropane	45		"	50.0		90.8	81-122		7.78	30	
1,3,5-Trimethylbenzene	45		"	50.0		89.4	82-126		7.24	30	
1,3-Dichlorobenzene	51		"	50.0		101	84-124		7.44	30	
1,4-Dichlorobenzene	50		"	50.0		100	84-124		7.04	30	
1,4-Dioxane	440		"	1050		42.3	10-228		8.12	30	
2-Butanone	38		"	50.0		75.4	58-147		8.78	30	
2-Hexanone	33		"	50.0		65.5	70-139	Low Bias	7.97	30	
4-Methyl-2-pentanone	41		"	50.0		81.5	72-132		7.44	30	
Acetone	30		"	50.0		59.2	36-155		5.48	30	
Acrolein	49		"	50.0		97.8	10-238		6.85	30	
Acrylonitrile	45		"	50.0		90.5	66-141		6.15	30	
Benzene	48		"	50.0		95.2	77-127		7.70	30	
Bromochloromethane	44		"	50.0		87.1	74-129		7.18	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30860 - EPA 5035A											
LCS Dup (BK30860-BSD1)								Prepared & Analyzed: 11/14/2023			
Bromodichloromethane	40		ug/L	50.0		80.5	81-124	Low Bias	8.36	30	
Bromoform	44		"	50.0		87.1	80-136		6.79	30	
Bromomethane	48		"	50.0		95.8	32-177		6.82	30	
Carbon disulfide	49		"	50.0		97.2	10-136		8.65	30	
Carbon tetrachloride	49		"	50.0		98.1	66-143		8.11	30	
Chlorobenzene	52		"	50.0		104	86-120		7.22	30	
Chloroethane	45		"	50.0		90.9	51-142		7.35	30	
Chloroform	47		"	50.0		93.1	76-131		7.82	30	
Chloromethane	45		"	50.0		89.2	49-132		4.49	30	
cis-1,2-Dichloroethylene	44		"	50.0		88.0	74-132		7.35	30	
cis-1,3-Dichloropropylene	44		"	50.0		88.5	81-129		7.48	30	
Cyclohexane	44		"	50.0		88.0	70-130		7.67	30	
Dibromochloromethane	43		"	50.0		85.3	10-200		8.28	30	
Dibromomethane	46		"	50.0		92.8	83-124		6.08	30	
Dichlorodifluoromethane	48		"	50.0		96.1	28-158		4.16	30	
Ethyl Benzene	48		"	50.0		95.2	84-125		6.91	30	
Hexachlorobutadiene	48		"	50.0		96.3	83-133		7.86	30	
Isopropylbenzene	45		"	50.0		90.0	81-127		7.78	30	
Methyl acetate	39		"	50.0		77.5	41-143		6.45	30	
Methyl tert-butyl ether (MTBE)	43		"	50.0		85.3	74-131		8.59	30	
Methylcyclohexane	45		"	50.0		89.4	70-130		7.31	30	
Methylene chloride	44		"	50.0		87.7	57-141		5.68	30	
n-Butylbenzene	43		"	50.0		86.4	80-130		6.67	30	
n-Propylbenzene	44		"	50.0		87.7	74-136		7.75	30	
o-Xylene	48		"	50.0		96.1	83-123		7.15	30	
p- & m- Xylenes	97		"	100		96.7	82-128		6.89	30	
p-Isopropyltoluene	47		"	50.0		93.8	85-125		7.52	30	
sec-Butylbenzene	46		"	50.0		92.3	83-125		7.72	30	
Styrene	51		"	50.0		101	86-126		7.06	30	
tert-Butyl alcohol (TBA)	190		"	250		75.6	70-130		8.48	30	
tert-Butylbenzene	47		"	50.0		93.1	80-127		8.11	30	
Tetrachloroethylene	44		"	50.0		88.4	80-129		8.44	30	
Toluene	47		"	50.0		94.7	85-121		7.38	30	
trans-1,2-Dichloroethylene	45		"	50.0		90.2	72-132		7.40	30	
trans-1,3-Dichloropropylene	38		"	50.0		75.6	78-132	Low Bias	6.78	30	
trans-1,4-dichloro-2-butene	38		"	50.0		76.3	75-135		6.24	30	
Trichloroethylene	46		"	50.0		92.6	84-123		6.97	30	
Trichlorofluoromethane	49		"	50.0		97.2	62-140		6.18	30	
Vinyl Chloride	44		"	50.0		88.0	52-130		3.35	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.2*		*"*	*50.0*		*98.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.4*		*"*	*50.0*		*101*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.4*		*"*	*50.0*		*82.9*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Blank (BK30917-BLK1)											
Prepared: 11/14/2023 Analyzed: 11/15/2023											
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Blank (BK30917-BLK1)											Prepared: 11/14/2023 Analyzed: 11/15/2023
Methylene chloride	ND	0.010	mg/kg wet								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.9*		*ug/L*	*50.0*		*99.9*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.1*		*"*	*50.0*		*100*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.0*		*"*	*50.0*		*81.9*	*76-130*				
Blank (BK30917-BLK2)											Prepared: 11/14/2023 Analyzed: 11/15/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Blank (BK30917-BLK2)											
Prepared: 11/14/2023 Analyzed: 11/15/2023											
Acrylonitrile	ND	0.50	mg/kg wet								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.2*		*ug/L*	*50.0*		*100*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.9*		*"*	*50.0*		*99.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.1*		*"*	*50.0*		*82.3*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
LCS (BK30917-BS1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.3	75-129				
1,1,1-Trichloroethane	43		"	50.0		87.0	71-137				
1,1,2,2-Tetrachloroethane	41		"	50.0		81.6	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	41		"	50.0		81.3	58-146				
1,1,2-Trichloroethane	44		"	50.0		88.5	83-123				
1,1-Dichloroethane	42		"	50.0		83.9	75-130				
1,1-Dichloroethylene	42		"	50.0		84.7	64-137				
1,2,3-Trichlorobenzene	46		"	50.0		92.1	81-140				
1,2,3-Trichloropropane	41		"	50.0		82.3	81-126				
1,2,4-Trichlorobenzene	44		"	50.0		88.6	80-141				
1,2,4-Trimethylbenzene	43		"	50.0		85.6	84-125				
1,2-Dibromo-3-chloropropane	31		"	50.0		62.5	74-142	Low Bias			
1,2-Dibromoethane	46		"	50.0		92.7	86-123				
1,2-Dichlorobenzene	48		"	50.0		95.8	85-122				
1,2-Dichloroethane	42		"	50.0		84.4	71-133				
1,2-Dichloropropane	43		"	50.0		85.5	81-122				
1,3,5-Trimethylbenzene	42		"	50.0		84.3	82-126				
1,3-Dichlorobenzene	47		"	50.0		94.8	84-124				
1,4-Dichlorobenzene	47		"	50.0		93.9	84-124				
1,4-Dioxane	410		"	1050		39.2	10-228				
2-Butanone	37		"	50.0		73.1	58-147				
2-Hexanone	31		"	50.0		61.1	70-139	Low Bias			
4-Methyl-2-pentanone	37		"	50.0		74.0	72-132				
Acetone	30		"	50.0		60.6	36-155				
Acrolein	39		"	50.0		77.8	10-238				
Acrylonitrile	41		"	50.0		82.7	66-141				
Benzene	45		"	50.0		90.2	77-127				
Bromochloromethane	41		"	50.0		81.4	74-129				
Bromodichloromethane	38		"	50.0		75.2	81-124	Low Bias			
Bromoform	40		"	50.0		80.7	80-136				
Bromomethane	49		"	50.0		98.9	32-177				
Carbon disulfide	46		"	50.0		92.0	10-136				
Carbon tetrachloride	46		"	50.0		92.1	66-143				
Chlorobenzene	49		"	50.0		98.0	86-120				
Chloroethane	47		"	50.0		93.2	51-142				
Chloroform	44		"	50.0		87.7	76-131				
Chloromethane	45		"	50.0		90.9	49-132				
cis-1,2-Dichloroethylene	41		"	50.0		82.8	74-132				
cis-1,3-Dichloropropylene	41		"	50.0		82.9	81-129				
Cyclohexane	42		"	50.0		83.1	70-130				
Dibromochloromethane	39		"	50.0		78.6	10-200				
Dibromomethane	43		"	50.0		86.6	83-124				
Dichlorodifluoromethane	56		"	50.0		112	28-158				
Ethyl Benzene	45		"	50.0		89.5	84-125				
Hexachlorobutadiene	46		"	50.0		91.4	83-133				
Isopropylbenzene	42		"	50.0		85.0	81-127				
Methyl acetate	36		"	50.0		72.3	41-143				
Methyl tert-butyl ether (MTBE)	40		"	50.0		80.3	74-131				
Methylcyclohexane	43		"	50.0		85.5	70-130				
Methylene chloride	40		"	50.0		79.5	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
LCS (BK30917-BS1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
n-Butylbenzene	41		ug/L	50.0		81.1	80-130				
n-Propylbenzene	41		"	50.0		82.0	74-136				
o-Xylene	45		"	50.0		89.8	83-123				
p- & m- Xylenes	91		"	100		90.7	82-128				
p-Isopropyltoluene	44		"	50.0		87.8	85-125				
sec-Butylbenzene	43		"	50.0		86.8	83-125				
Styrene	47		"	50.0		94.9	86-126				
tert-Butyl alcohol (TBA)	170		"	250		68.8	70-130	Low Bias			
tert-Butylbenzene	44		"	50.0		87.6	80-127				
Tetrachloroethylene	42		"	50.0		84.1	80-129				
Toluene	45		"	50.0		89.8	85-121				
trans-1,2-Dichloroethylene	43		"	50.0		85.1	72-132				
trans-1,3-Dichloropropylene	36		"	50.0		71.1	78-132	Low Bias			
trans-1,4-dichloro-2-butene	35		"	50.0		69.2	75-135	Low Bias			
Trichloroethylene	44		"	50.0		88.0	84-123				
Trichlorofluoromethane	49		"	50.0		98.0	62-140				
Vinyl Chloride	48		"	50.0		95.8	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.2*		*"*	*50.0*		*96.4*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.3*		*"*	*50.0*		*101*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.2*		*"*	*50.0*		*82.3*	*76-130*				
LCS Dup (BK30917-BSD1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129		5.63	30	
1,1,1-Trichloroethane	45		"	50.0		90.7	71-137		4.21	30	
1,1,2,2-Tetrachloroethane	43		"	50.0		86.7	79-129		6.01	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40		"	50.0		79.3	58-146		2.44	30	
1,1,2-Trichloroethane	47		"	50.0		94.6	83-123		6.67	30	
1,1-Dichloroethane	44		"	50.0		88.2	75-130		5.04	30	
1,1-Dichloroethylene	42		"	50.0		83.4	64-137		1.62	30	
1,2,3-Trichlorobenzene	48		"	50.0		96.6	81-140		4.75	30	
1,2,3-Trichloropropane	44		"	50.0		87.4	81-126		5.96	30	
1,2,4-Trichlorobenzene	46		"	50.0		92.3	80-141		4.09	30	
1,2,4-Trimethylbenzene	44		"	50.0		88.2	84-125		3.04	30	
1,2-Dibromo-3-chloropropane	33		"	50.0		66.9	74-142	Low Bias	6.77	30	
1,2-Dibromoethane	49		"	50.0		98.7	86-123		6.33	30	
1,2-Dichlorobenzene	50		"	50.0		100	85-122		4.75	30	
1,2-Dichloroethane	45		"	50.0		90.2	71-133		6.64	30	
1,2-Dichloropropane	45		"	50.0		89.6	81-122		4.61	30	
1,3,5-Trimethylbenzene	43		"	50.0		86.8	82-126		2.90	30	
1,3-Dichlorobenzene	49		"	50.0		98.9	84-124		4.25	30	
1,4-Dichlorobenzene	49		"	50.0		98.1	84-124		4.31	30	
1,4-Dioxane	440		"	1050		41.6	10-228		5.96	30	
2-Butanone	39		"	50.0		78.7	58-147		7.43	30	
2-Hexanone	33		"	50.0		65.9	70-139	Low Bias	7.56	30	
4-Methyl-2-pentanone	40		"	50.0		80.0	72-132		7.79	30	
Acetone	33		"	50.0		65.0	36-155		7.07	30	
Acrolein	39		"	50.0		77.2	10-238		0.851	30	
Acrylonitrile	45		"	50.0		89.6	66-141		7.96	30	
Benzene	47		"	50.0		94.6	77-127		4.74	30	
Bromochloromethane	43		"	50.0		86.2	74-129		5.68	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
LCS Dup (BK30917-BSD1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Bromodichloromethane	40		ug/L	50.0		79.7	81-124	Low Bias	5.81	30	
Bromoform	43		"	50.0		87.0	80-136		7.52	30	
Bromomethane	51		"	50.0		103	32-177		3.89	30	
Carbon disulfide	49		"	50.0		97.3	10-136		5.58	30	
Carbon tetrachloride	48		"	50.0		96.4	66-143		4.58	30	
Chlorobenzene	51		"	50.0		103	86-120		4.55	30	
Chloroethane	48		"	50.0		96.4	51-142		3.38	30	
Chloroform	46		"	50.0		92.5	76-131		5.28	30	
Chloromethane	47		"	50.0		93.5	49-132		2.80	30	
cis-1,2-Dichloroethylene	44		"	50.0		87.2	74-132		5.20	30	
cis-1,3-Dichloropropylene	44		"	50.0		88.5	81-129		6.51	30	
Cyclohexane	43		"	50.0		86.6	70-130		4.08	30	
Dibromochloromethane	42		"	50.0		84.8	10-200		7.59	30	
Dibromomethane	46		"	50.0		92.3	83-124		6.35	30	
Dichlorodifluoromethane	57		"	50.0		114	28-158		2.34	30	
Ethyl Benzene	46		"	50.0		92.7	84-125		3.49	30	
Hexachlorobutadiene	47		"	50.0		93.7	83-133		2.46	30	
Isopropylbenzene	44		"	50.0		87.1	81-127		2.44	30	
Methyl acetate	38		"	50.0		77.0	41-143		6.21	30	
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.7	74-131		7.67	30	
Methylcyclohexane	44		"	50.0		88.1	70-130		3.04	30	
Methylene chloride	42		"	50.0		83.9	57-141		5.36	30	
n-Butylbenzene	41		"	50.0		82.7	80-130		1.88	30	
n-Propylbenzene	42		"	50.0		84.3	74-136		2.79	30	
o-Xylene	47		"	50.0		94.4	83-123		4.99	30	
p- & m- Xylenes	94		"	100		93.6	82-128		3.21	30	
p-Isopropyltoluene	45		"	50.0		90.5	85-125		2.96	30	
sec-Butylbenzene	45		"	50.0		89.1	83-125		2.71	30	
Styrene	50		"	50.0		99.5	86-126		4.75	30	
tert-Butyl alcohol (TBA)	190		"	250		75.5	70-130		9.27	30	
tert-Butylbenzene	45		"	50.0		90.2	80-127		2.88	30	
Tetrachloroethylene	44		"	50.0		87.0	80-129		3.41	30	
Toluene	47		"	50.0		93.3	85-121		3.82	30	
trans-1,2-Dichloroethylene	44		"	50.0		88.9	72-132		4.28	30	
trans-1,3-Dichloropropylene	38		"	50.0		75.8	78-132	Low Bias	6.37	30	
trans-1,4-dichloro-2-butene	37		"	50.0		73.6	75-135	Low Bias	6.22	30	
Trichloroethylene	46		"	50.0		92.2	84-123		4.69	30	
Trichlorofluoromethane	50		"	50.0		101	62-140		2.88	30	
Vinyl Chloride	49		"	50.0		98.3	52-130		2.62	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.0*		*"*	*50.0*		*98.0*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.0*		*"*	*50.0*		*100*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*40.9*		*"*	*50.0*		*81.8*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Matrix Spike (BK30917-MS1)	*Source sample: 23K0749-01 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	41		ug/L	50.0	0.0	82.0	15-161				
1,1,1-Trichloroethane	39		"	50.0	0.0	77.7	42-145				
1,1,2,2-Tetrachloroethane	34		"	50.0	0.0	68.7	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	37		"	50.0	0.0	73.7	11-160				
1,1,2-Trichloroethane	39		"	50.0	0.0	78.7	44-145				
1,1-Dichloroethane	37		"	50.0	0.0	74.6	46-142				
1,1-Dichloroethylene	34		"	50.0	0.0	68.6	30-153				
1,1-Dichloropropylene	34		"	50.0	0.0	68.2	40-133				
1,2,3-Trichlorobenzene	21		"	50.0	0.0	41.8	10-157				
1,2,3-Trichloropropane	35		"	50.0	0.0	70.7	38-155				
1,2,4,5-Tetramethylbenzene	27		"	50.0	0.0	54.8	10-138				
1,2,4-Trichlorobenzene	20		"	50.0	0.0	40.9	10-151				
1,2,4-Trimethylbenzene	32		"	50.0	0.0	63.7	10-170				
1,2-Dibromo-3-chloropropane	23		"	50.0	0.0	45.4	36-138				
1,2-Dibromoethane	40		"	50.0	0.0	79.6	40-142				
1,2-Dichlorobenzene	32		"	50.0	0.0	63.7	10-147				
1,2-Dichloroethane	37		"	50.0	0.0	74.4	48-133				
1,2-Dichloropropane	38		"	50.0	0.0	75.8	47-141				
1,3,5-Trimethylbenzene	32		"	50.0	0.0	64.0	10-150				
1,3-Dichlorobenzene	31		"	50.0	0.0	61.1	10-144				
1,3-Dichloropropane	38		"	50.0	0.0	75.4	43-142				
1,4-Dichlorobenzene	30		"	50.0	0.0	59.6	10-160				
1,4-Dioxane	350		"	1050	0.0	32.9	10-191				
2,2-Dichloropropane	33		"	50.0	0.0	66.5	38-130				
2-Butanone	30		"	50.0	0.0	59.5	10-189				
2-Chlorotoluene	30		"	50.0	0.0	60.2	14-144				
2-Hexanone	25		"	50.0	0.0	49.2	10-181				
4-Chlorotoluene	29		"	50.0	0.0	58.6	15-138				
4-Methyl-2-pentanone	32		"	50.0	0.0	64.9	10-166				
Acetone	25		"	50.0	3.0	43.7	10-196				
Acrolein	6.1		"	50.0	0.0	12.2	10-192				
Acrylonitrile	32		"	50.0	0.0	64.9	13-161				
Benzene	39		"	50.0	0.0	77.1	43-139				
Bromobenzene	28		"	50.0	0.0	56.1	23-142				
Bromochloromethane	34		"	50.0	0.0	68.0	38-145				
Bromodichloromethane	32		"	50.0	0.0	64.8	38-147				
Bromoform	31		"	50.0	0.0	61.7	29-156				
Bromomethane	36		"	50.0	0.0	71.9	10-166				
Carbon disulfide	31		"	50.0	0.0	62.5	10-131				
Carbon tetrachloride	38		"	50.0	0.0	75.9	35-145				
Chlorobenzene	37		"	50.0	0.0	74.5	21-154				
Chloroethane	35		"	50.0	0.0	69.4	15-160				
Chloroform	40		"	50.0	0.0	80.0	47-142				
Chloromethane	26		"	50.0	0.0	51.4	10-159				
cis-1,2-Dichloroethylene	35		"	50.0	0.0	69.8	42-144				
cis-1,3-Dichloropropylene	34		"	50.0	0.0	68.9	18-159				
Cyclohexane	32		"	50.0	0.0	64.6	70-130	Low Bias			
Dibromochloromethane	33		"	50.0	0.0	65.7	10-179				
Dibromomethane	36		"	50.0	0.0	72.8	47-143				
Dichlorodifluoromethane	18		"	50.0	0.0	35.6	10-145				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Matrix Spike (BK30917-MS1)	*Source sample: 23K0749-01 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/15/2023			
Ethyl Benzene	36		ug/L	50.0	0.0	71.8	11-158				
Hexachlorobutadiene	17		"	50.0	0.0	34.7	10-158				
Isopropylbenzene	34		"	50.0	0.0	67.5	10-162				
Methyl acetate	35		"	50.0	0.0	69.3	10-149				
Methyl tert-butyl ether (MTBE)	39		"	50.0	0.0	78.0	42-152				
Methylcyclohexane	30		"	50.0	0.0	59.0	70-130	Low Bias			
Methylene chloride	34		"	50.0	1.4	65.3	28-151				
Naphthalene	21		"	50.0	0.0	42.5	10-158				
n-Butylbenzene	24		"	50.0	0.0	47.5	10-162				
n-Propylbenzene	30		"	50.0	0.0	60.0	10-155				
o-Xylene	37		"	50.0	0.0	73.8	10-158				
p- & m- Xylenes	71		"	100	0.0	70.5	10-156				
p-Diethylbenzene	27		"	50.0	0.0	53.6	10-146				
p-Ethyltoluene	32		"	50.0	0.0	64.2	10-135				
p-Isopropyltoluene	30		"	50.0	0.0	59.7	10-147				
sec-Butylbenzene	30		"	50.0	0.0	59.0	10-157				
Styrene	35		"	50.0	0.0	69.1	13-171				
tert-Butyl alcohol (TBA)	150		"	250	0.0	61.7	34-179				
tert-Butylbenzene	33		"	50.0	0.0	66.4	10-160				
Tetrachloroethylene	34		"	50.0	0.0	68.3	30-167				
Toluene	37		"	50.0	0.0	74.1	21-160				
trans-1,2-Dichloroethylene	33		"	50.0	0.0	66.8	29-153				
trans-1,3-Dichloropropylene	28		"	50.0	0.0	55.2	18-155				
trans-1,4-dichloro-2-butene	28		"	50.0	0.0	56.8	17-154				
Trichloroethylene	36		"	50.0	0.0	71.8	24-169				
Trichlorofluoromethane	36		"	50.0	0.0	71.2	35-142				
Vinyl acetate	13		"	50.0	0.0	26.3	10-119				
Vinyl Chloride	29		"	50.0	0.0	58.7	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.9*		*"*	*50.0*		*95.8*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.7*		*"*	*50.0*		*99.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.3*		*"*	*50.0*		*82.5*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BK30917 - EPA 5035A

Matrix Spike Dup (BK30917-MSD1) *Source sample: 23K0749-01 (Matrix Spike Dup) Prepared: 11/14/2023 Analyzed: 11/15/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	38		ug/L	50.0	0.0	75.8	15-161		7.86	33	
1,1,1-Trichloroethane	36		"	50.0	0.0	72.6	42-145		6.89	30	
1,1,2,2-Tetrachloroethane	31		"	50.0	0.0	61.4	16-167		11.1	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	34		"	50.0	0.0	68.5	11-160		7.28	31	
1,1,2-Trichloroethane	35		"	50.0	0.0	70.3	44-145		11.2	40	
1,1-Dichloroethane	35		"	50.0	0.0	69.8	46-142		6.64	36	
1,1-Dichloroethylene	32		"	50.0	0.0	64.2	30-153		6.57	31	
1,2,3-Trichlorobenzene	20		"	50.0	0.0	40.9	10-157		2.27	47	
1,2,3-Trichloropropane	31		"	50.0	0.0	61.7	38-155		13.5	48	
1,2,4-Trichlorobenzene	20		"	50.0	0.0	39.7	10-151		3.03	52	
1,2,4-Trimethylbenzene	29		"	50.0	0.0	58.4	10-170		8.68	242	
1,2-Dibromo-3-chloropropane	20		"	50.0	0.0	39.6	36-138		13.7	54	
1,2-Dibromoethane	35		"	50.0	0.0	69.5	40-142		13.4	39	
1,2-Dichlorobenzene	29		"	50.0	0.0	58.6	10-147		8.24	52	
1,2-Dichloroethane	34		"	50.0	0.0	68.4	48-133		8.38	32	
1,2-Dichloropropane	35		"	50.0	0.0	70.5	47-141		7.19	37	
1,3,5-Trimethylbenzene	30		"	50.0	0.0	59.1	10-150		8.06	62	
1,3-Dichlorobenzene	29		"	50.0	0.0	57.0	10-144		6.97	51	
1,4-Dichlorobenzene	28		"	50.0	0.0	55.1	10-160		7.92	52	
1,4-Dioxane	310		"	1050	0.0	29.8	10-191		9.76	196	
2-Butanone	26		"	50.0	0.0	52.4	10-189		12.8	67	
2-Hexanone	21		"	50.0	0.0	42.4	10-181		14.8	60	
4-Methyl-2-pentanone	29		"	50.0	0.0	57.1	10-166		12.7	47	
Acetone	23		"	50.0	3.0	39.8	10-196		9.30	150	
Acrolein	3.7		"	50.0	0.0	7.42	10-192	Low Bias	48.9	128	
Acrylonitrile	28		"	50.0	0.0	56.2	13-161		14.3	48	
Benzene	35		"	50.0	0.0	69.6	43-139		10.3	64	
Bromochloromethane	31		"	50.0	0.0	62.6	38-145		8.24	30	
Bromodichloromethane	30		"	50.0	0.0	59.3	38-147		8.89	37	
Bromoform	27		"	50.0	0.0	54.9	29-156		11.6	51	
Bromomethane	31		"	50.0	0.0	62.8	10-166		13.5	42	
Carbon disulfide	29		"	50.0	0.0	57.6	10-131		8.06	36	
Carbon tetrachloride	36		"	50.0	0.0	71.3	35-145		6.17	31	
Chlorobenzene	34		"	50.0	0.0	67.9	21-154		9.25	32	
Chloroethane	32		"	50.0	0.0	64.9	15-160		6.76	40	
Chloroform	38		"	50.0	0.0	75.1	47-142		6.35	29	
Chloromethane	25		"	50.0	0.0	50.2	10-159		2.36	31	
cis-1,2-Dichloroethylene	32		"	50.0	0.0	64.1	42-144		8.52	30	
cis-1,3-Dichloropropylene	31		"	50.0	0.0	62.1	18-159		10.4	39	
Cyclohexane	30		"	50.0	0.0	60.1	70-130	Low Bias	7.12	30	
Dibromochloromethane	29		"	50.0	0.0	58.7	10-179		11.2	41	
Dibromomethane	32		"	50.0	0.0	64.9	47-143		11.5	41	
Dichlorodifluoromethane	16		"	50.0	0.0	31.9	10-145		10.9	34	
Ethyl Benzene	33		"	50.0	0.0	65.5	11-158		9.27	42	
Hexachlorobutadiene	18		"	50.0	0.0	35.6	10-158		2.50	45	
Isopropylbenzene	31		"	50.0	0.0	61.9	10-162		8.60	57	
Methyl acetate	34		"	50.0	0.0	67.3	10-149		2.96	64	
Methyl tert-butyl ether (MTBE)	36		"	50.0	0.0	72.7	42-152		6.98	47	
Methylcyclohexane	28		"	50.0	0.0	55.4	70-130	Low Bias	6.43	30	
Methylene chloride	32		"	50.0	1.4	61.2	28-151		6.48	49	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Matrix Spike Dup (BK30917-MSD1)	*Source sample: 23K0749-01 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
n-Butylbenzene	23		ug/L	50.0	0.0	45.8	10-162		3.52	96	
n-Propylbenzene	28		"	50.0	0.0	55.3	10-155		8.12	56	
o-Xylene	33		"	50.0	0.0	66.9	10-158		9.84	51	
p- & m- Xylenes	65		"	100	0.0	65.1	10-156		8.07	47	
p-Isopropyltoluene	28		"	50.0	0.0	56.5	10-147		5.47	60	
sec-Butylbenzene	28		"	50.0	0.0	56.1	10-157		5.07	56	
Styrene	31		"	50.0	0.0	62.8	13-171		9.43	39	
tert-Butyl alcohol (TBA)	140		"	250	0.0	57.9	34-179		6.32	35	
tert-Butylbenzene	31		"	50.0	0.0	62.3	10-160		6.40	79	
Tetrachloroethylene	31		"	50.0	0.0	62.1	30-167		9.60	33	
Toluene	33		"	50.0	0.0	66.6	21-160		10.6	50	
trans-1,2-Dichloroethylene	31		"	50.0	0.0	61.9	29-153		7.62	30	
trans-1,3-Dichloropropylene	25		"	50.0	0.0	49.2	18-155		11.5	30	
trans-1,4-dichloro-2-butene	25		"	50.0	0.0	49.7	17-154		13.3	30	
Trichloroethylene	33		"	50.0	0.0	65.2	24-169		9.64	30	
Trichlorofluoromethane	33		"	50.0	0.0	66.4	35-142		6.92	30	
Vinyl Chloride	27		"	50.0	0.0	53.8	12-160		8.64	35	
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.1*		*"*	*50.0*		*96.3*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.4*		*"*	*50.0*		*98.8*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.2*		*"*	*50.0*		*82.3*	*76-130*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Blank (BK31053-BLK1)											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Prepared & Analyzed: 11/16/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Blank (BK31053-BLK1)											Prepared & Analyzed: 11/16/2023
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*1.06*		"	*1.66*		*64.0*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.948*		"	*1.66*		*57.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.543*		"	*0.831*		*65.4*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.477*		"	*0.831*		*57.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.24*		"	*1.66*		*74.4*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.523*		"	*0.831*		*62.9*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
LCS (BK31053-BS1)								Prepared & Analyzed: 11/16/2023			
1,1-Biphenyl	0.634	0.0416	mg/kg wet	0.831		76.3	18-111				
1,2,4,5-Tetrachlorobenzene	0.588	0.0830	"	0.831		70.8	21-131				
1,2,4-Trichlorobenzene	0.612	0.0416	"	0.831		73.7	10-140				
1,2-Dichlorobenzene	0.559	0.0416	"	0.831		67.3	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.641	0.0416	"	0.831		77.1	17-137				
1,3-Dichlorobenzene	0.571	0.0416	"	0.831		68.7	33-110				
1,4-Dichlorobenzene	0.589	0.0416	"	0.831		70.9	32-104				
2,3,4,6-Tetrachlorophenol	0.656	0.0830	"	0.831		79.0	30-130				
2,4,5-Trichlorophenol	0.594	0.0416	"	0.831		71.5	27-118				
2,4,6-Trichlorophenol	0.654	0.0416	"	0.831		78.8	31-120				
2,4-Dichlorophenol	0.654	0.0416	"	0.831		78.8	20-127				
2,4-Dimethylphenol	0.528	0.0416	"	0.831		63.5	14-132				
2,4-Dinitrophenol	0.416	0.0830	"	0.831		50.1	10-171				
2,4-Dinitrotoluene	0.769	0.0416	"	0.831		92.6	34-131				
2,6-Dinitrotoluene	0.789	0.0416	"	0.831		95.0	31-128				
2-Chloronaphthalene	0.602	0.0416	"	0.831		72.4	31-117				
2-Chlorophenol	0.625	0.0416	"	0.831		75.2	33-113				
2-Methylnaphthalene	0.580	0.0416	"	0.831		69.9	12-138				
2-Methylphenol	0.622	0.0416	"	0.831		74.9	10-136				
2-Nitroaniline	0.834	0.0830	"	0.831		100	27-132				
2-Nitrophenol	0.893	0.0416	"	0.831		107	17-129				
3- & 4-Methylphenols	0.412	0.0416	"	0.831		49.6	29-103				
3,3-Dichlorobenzidine	1.34	0.0416	"	0.831		162	22-149	High Bias			
3-Nitroaniline	0.733	0.0830	"	0.831		88.2	20-133				
4,6-Dinitro-2-methylphenol	0.968	0.0830	"	0.831		117	10-143				
4-Bromophenyl phenyl ether	0.607	0.0416	"	0.831		73.1	29-120				
4-Chloro-3-methylphenol	0.662	0.0416	"	0.831		79.7	24-129				
4-Chloroaniline	0.333	0.0416	"	0.831		40.0	10-132				
4-Chlorophenyl phenyl ether	0.600	0.0416	"	0.831		72.3	27-124				
4-Nitroaniline	0.737	0.0830	"	0.831		88.7	16-128				
4-Nitrophenol	0.741	0.0830	"	0.831		89.2	10-141				
Acenaphthene	0.584	0.0416	"	0.831		70.3	30-121				
Acenaphthylene	0.586	0.0416	"	0.831		70.6	30-115				
Acetophenone	0.611	0.0416	"	0.831		73.6	20-112				
Aniline	0.311	0.166	"	0.831		37.4	10-119				
Anthracene	0.615	0.0416	"	0.831		74.0	34-118				
Atrazine	0.709	0.0416	"	0.831		85.4	26-112				
Benzaldehyde	0.492	0.0416	"	0.831		59.2	21-100				
Benzo(a)anthracene	0.642	0.0416	"	0.831		77.2	32-122				
Benzo(a)pyrene	0.708	0.0416	"	0.831		85.2	29-133				
Benzo(b)fluoranthene	0.680	0.0416	"	0.831		81.9	25-133				
Benzo(g,h,i)perylene	0.675	0.0416	"	0.831		81.3	10-143				
Benzo(k)fluoranthene	0.673	0.0416	"	0.831		81.0	25-128				
Benzoic acid	0.115	0.0416	"	0.831		13.8	10-140				
Benzyl alcohol	0.628	0.0416	"	0.831		75.6	30-115				
Benzyl butyl phthalate	0.856	0.0416	"	0.831		103	26-126				
Bis(2-chloroethoxy)methane	0.592	0.0416	"	0.831		71.3	19-132				
Bis(2-chloroethyl)ether	0.594	0.0416	"	0.831		71.6	19-125				
Bis(2-chloroisopropyl)ether	0.616	0.0416	"	0.831		74.1	20-135				
Bis(2-ethylhexyl)phthalate	0.946	0.0416	"	0.831		114	10-155				
Caprolactam	0.852	0.0830	"	0.831		103	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
LCS (BK31053-BS1)							Prepared & Analyzed: 11/16/2023				
Carbazole	0.621	0.0416	mg/kg wet	0.831		74.8	35-123				
Chrysene	0.621	0.0416	"	0.831		74.7	32-123				
Dibenzo(a,h)anthracene	0.779	0.0416	"	0.831		93.8	10-136				
Dibenzofuran	0.606	0.0416	"	0.831		72.9	29-121				
Diethyl phthalate	0.590	0.0416	"	0.831		71.1	34-116				
Dimethyl phthalate	0.600	0.0416	"	0.831		72.2	35-124				
Di-n-butyl phthalate	0.713	0.0416	"	0.831		85.9	31-116				
Di-n-octyl phthalate	1.12	0.0416	"	0.831		135	26-136				
Diphenylamine	0.710	0.0830	"	0.831		85.4	40-140				
Fluoranthene	0.613	0.0416	"	0.831		73.8	33-122				
Fluorene	0.584	0.0416	"	0.831		70.4	29-123				
Hexachlorobenzene	0.571	0.0416	"	0.831		68.8	21-124				
Hexachlorobutadiene	0.572	0.0416	"	0.831		68.9	10-149				
Hexachlorocyclopentadiene	0.312	0.0416	"	0.831		37.6	10-129				
Hexachloroethane	0.551	0.0416	"	0.831		66.3	28-108				
Indeno(1,2,3-cd)pyrene	0.778	0.0416	"	0.831		93.7	10-135				
Isophorone	0.637	0.0416	"	0.831		76.7	20-132				
Naphthalene	0.632	0.0416	"	0.831		76.1	23-124				
Nitrobenzene	0.675	0.0416	"	0.831		81.3	13-132				
N-Nitrosodimethylamine	0.561	0.0416	"	0.831		67.6	11-129				
N-nitroso-di-n-propylamine	0.605	0.0416	"	0.831		72.9	24-119				
N-Nitrosodiphenylamine	0.682	0.0416	"	0.831		82.2	22-152				
Pentachlorophenol	0.401	0.0416	"	0.831		48.2	10-139				
Phenanthrene	0.608	0.0416	"	0.831		73.2	33-123				
Phenol	0.626	0.0416	"	0.831		75.3	23-115				
Pyrene	0.626	0.0416	"	0.831		75.4	32-130				
Surrogate: SURR: 2-Fluorophenol	*1.23*		"	*1.66*		*74.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.18*		"	*1.66*		*70.9*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.680*		"	*0.831*		*81.8*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.595*		"	*0.831*		*71.6*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.48*		"	*1.66*		*88.9*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.648*		"	*0.831*		*78.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike (BK31053-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
1,1-Biphenyl	0.305	0.0504	mg/kg dry	1.01	ND	30.3	10-130				
1,2,4,5-Tetrachlorobenzene	0.322	0.101	"	1.01	ND	32.0	10-133				
1,2,4-Trichlorobenzene	0.317	0.0504	"	1.01	ND	31.5	10-127				
1,2-Dichlorobenzene	0.302	0.0504	"	1.01	ND	30.0	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.326	0.0504	"	1.01	ND	32.4	10-144				
1,3-Dichlorobenzene	0.301	0.0504	"	1.01	ND	30.0	11-111				
1,4-Dichlorobenzene	0.289	0.0504	"	1.01	ND	28.7	10-106				
2,3,4,6-Tetrachlorophenol	0.0708	0.101	"	1.01	ND	7.04	30-130	Low Bias			
2,4,5-Trichlorophenol	0.231	0.0504	"	1.01	ND	23.0	10-127				
2,4,6-Trichlorophenol	0.249	0.0504	"	1.01	ND	24.7	10-132				
2,4-Dichlorophenol	0.292	0.0504	"	1.01	ND	29.0	10-128				
2,4-Dimethylphenol	0.281	0.0504	"	1.01	ND	28.0	10-137				
2,4-Dinitrophenol	ND	0.101	"	1.01	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.374	0.0504	"	1.01	ND	37.2	16-135				
2,6-Dinitrotoluene	0.399	0.0504	"	1.01	ND	39.6	18-131				
2-Chloronaphthalene	0.314	0.0504	"	1.01	ND	31.2	10-129				
2-Chlorophenol	0.329	0.0504	"	1.01	ND	32.7	15-116				
2-Methylnaphthalene	0.310	0.0504	"	1.01	0.0279	28.0	10-147				
2-Methylphenol	0.321	0.0504	"	1.01	ND	31.9	10-136				
2-Nitroaniline	0.442	0.101	"	1.01	ND	43.9	10-137				
2-Nitrophenol	0.440	0.0504	"	1.01	ND	43.7	10-129				
3- & 4-Methylphenols	0.208	0.0504	"	1.01	ND	20.7	10-123				
3,3-Dichlorobenzidine	0.766	0.0504	"	1.01	ND	76.2	10-155				
3-Nitroaniline	0.381	0.101	"	1.01	ND	37.9	12-133				
4,6-Dinitro-2-methylphenol	ND	0.101	"	1.01	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	0.310	0.0504	"	1.01	ND	30.8	14-128				
4-Chloro-3-methylphenol	0.334	0.0504	"	1.01	ND	33.2	10-134				
4-Chloroaniline	0.205	0.0504	"	1.01	ND	20.4	10-145				
4-Chlorophenyl phenyl ether	0.318	0.0504	"	1.01	ND	31.6	14-130				
4-Nitroaniline	0.428	0.101	"	1.01	ND	42.5	10-147				
4-Nitrophenol	0.405	0.101	"	1.01	ND	40.3	10-137				
Acenaphthene	0.322	0.0504	"	1.01	0.0574	26.3	10-146				
Acenaphthylene	0.330	0.0504	"	1.01	0.0343	29.4	10-134				
Acetophenone	0.305	0.0504	"	1.01	ND	30.3	10-116				
Aniline	0.155	0.202	"	1.01	ND	15.4	10-123				
Anthracene	0.334	0.0504	"	1.01	0.141	19.2	10-142				
Atrazine	0.353	0.0504	"	1.01	ND	35.1	19-115				
Benzaldehyde	0.258	0.0504	"	1.01	ND	25.6	10-125				
Benzo(a)anthracene	0.453	0.0504	"	1.01	0.336	11.7	10-158				
Benzo(a)pyrene	0.500	0.0504	"	1.01	0.311	18.7	10-180				
Benzo(b)fluoranthene	0.507	0.0504	"	1.01	0.278	22.7	10-200				
Benzo(g,h,i)perylene	0.433	0.0504	"	1.01	0.192	24.0	10-138				
Benzo(k)fluoranthene	0.402	0.0504	"	1.01	0.239	16.2	10-197				
Benzoic acid	ND	0.0504	"	1.01	ND		10-166	Low Bias			
Benzyl alcohol	0.324	0.0504	"	1.01	ND	32.2	12-124				
Benzyl butyl phthalate	0.457	0.0504	"	1.01	ND	45.4	10-154				
Bis(2-chloroethoxy)methane	0.324	0.0504	"	1.01	ND	32.2	10-132				
Bis(2-chloroethyl)ether	0.332	0.0504	"	1.01	ND	33.0	10-119				
Bis(2-chloroisopropyl)ether	0.317	0.0504	"	1.01	ND	31.5	10-139				
Bis(2-ethylhexyl)phthalate	0.521	0.0504	"	1.01	ND	51.8	10-167				
Caprolactam	0.230	0.101	"	1.01	ND	22.9	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike (BK31053-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
Carbazole	0.330	0.0504	mg/kg dry	1.01	0.0478	28.0	10-167				
Chrysene	0.455	0.0504	"	1.01	0.297	15.7	10-156				
Dibenzo(a,h)anthracene	0.423	0.0504	"	1.01	0.0574	36.4	10-137				
Dibenzofuran	0.315	0.0504	"	1.01	0.0391	27.4	10-147				
Diethyl phthalate	0.310	0.0504	"	1.01	ND	30.8	20-120				
Dimethyl phthalate	0.307	0.0504	"	1.01	ND	30.5	18-131				
Di-n-butyl phthalate	0.363	0.0504	"	1.01	ND	36.1	10-137				
Di-n-octyl phthalate	0.574	0.0504	"	1.01	ND	57.1	10-180				
Diphenylamine	0.369	0.101	"	1.01	ND	36.7	40-140	Low Bias			
Fluoranthene	0.535	0.0504	"	1.01	0.591	NR	10-160	Low Bias			
Fluorene	0.322	0.0504	"	1.01	0.0574	26.3	10-157				
Hexachlorobenzene	0.321	0.0504	"	1.01	ND	31.9	10-137				
Hexachlorobutadiene	0.298	0.0504	"	1.01	ND	29.6	10-132				
Hexachlorocyclopentadiene	ND	0.0504	"	1.01	ND		10-106	Low Bias			
Hexachloroethane	0.254	0.0504	"	1.01	ND	25.2	10-110				
Indeno(1,2,3-cd)pyrene	0.552	0.0504	"	1.01	0.257	29.3	10-144				
Isophorone	0.340	0.0504	"	1.01	ND	33.8	10-132				
Naphthalene	0.353	0.0504	"	1.01	0.0335	31.7	10-141				
Nitrobenzene	0.339	0.0504	"	1.01	ND	33.6	10-131				
N-Nitrosodimethylamine	0.289	0.0504	"	1.01	ND	28.7	10-126				
N-nitroso-di-n-propylamine	0.312	0.0504	"	1.01	ND	31.0	10-125				
N-Nitrosodiphenylamine	0.331	0.0504	"	1.01	ND	32.9	10-177				
Pentachlorophenol	ND	0.0504	"	1.01	ND		10-153	Low Bias			
Phenanthrene	0.433	0.0504	"	1.01	0.482	NR	10-148	Low Bias			
Phenol	0.328	0.0504	"	1.01	ND	32.6	10-126				
Pyrene	0.565	0.0504	"	1.01	0.568	NR	10-165	Low Bias			
Surrogate: SURR: 2-Fluorophenol	*0.609*		*"*	*2.01*		*30.2*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.615*		*"*	*2.01*		*30.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.354*		*"*	*1.01*		*35.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.297*		*"*	*1.01*		*29.5*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.487*		*"*	*2.01*		*24.2*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.340*		*"*	*1.01*		*33.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike Dup (BK31053-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/16/2023		
1,1-Biphenyl	0.359	0.0504	mg/kg dry	1.01	ND	35.6	10-130		16.1	30	
1,2,4,5-Tetrachlorobenzene	0.316	0.101	"	1.01	ND	31.4	10-133		2.02	30	
1,2,4-Trichlorobenzene	0.361	0.0504	"	1.01	ND	35.9	10-127		13.2	30	
1,2-Dichlorobenzene	0.347	0.0504	"	1.01	ND	34.5	14-111		14.0	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.330	0.0504	"	1.01	ND	32.8	10-144		0.982	30	
1,3-Dichlorobenzene	0.335	0.0504	"	1.01	ND	33.3	11-111		10.6	30	
1,4-Dichlorobenzene	0.336	0.0504	"	1.01	ND	33.4	10-106		15.2	30	
2,3,4,6-Tetrachlorophenol	0.237	0.101	"	1.01	ND	23.6	30-130	Low Bias		30	
2,4,5-Trichlorophenol	0.298	0.0504	"	1.01	ND	29.6	10-127		25.4	30	
2,4,6-Trichlorophenol	0.330	0.0504	"	1.01	ND	32.8	10-132		28.2	30	
2,4-Dichlorophenol	0.363	0.0504	"	1.01	ND	36.1	10-128		21.9	30	
2,4-Dimethylphenol	0.311	0.0504	"	1.01	ND	30.9	10-137		9.93	30	
2,4-Dinitrophenol	ND	0.101	"	1.01	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.410	0.0504	"	1.01	ND	40.8	16-135		9.13	30	
2,6-Dinitrotoluene	0.422	0.0504	"	1.01	ND	41.9	18-131		5.59	30	
2-Chloronaphthalene	0.361	0.0504	"	1.01	ND	35.8	10-129		14.0	30	
2-Chlorophenol	0.364	0.0504	"	1.01	ND	36.2	15-116		10.2	30	
2-Methylnaphthalene	0.371	0.0504	"	1.01	0.0279	34.1	10-147		18.0	30	
2-Methylphenol	0.364	0.0504	"	1.01	ND	36.2	10-136		12.6	30	
2-Nitroaniline	0.477	0.101	"	1.01	ND	47.4	10-137		7.54	30	
2-Nitrophenol	0.471	0.0504	"	1.01	ND	46.8	10-129		6.90	30	
3- & 4-Methylphenols	0.238	0.0504	"	1.01	ND	23.6	10-123		13.4	30	
3,3-Dichlorobenzidine	0.899	0.0504	"	1.01	ND	89.4	10-155		15.9	30	
3-Nitroaniline	0.465	0.101	"	1.01	ND	46.2	12-133		19.8	30	
4,6-Dinitro-2-methylphenol	0.0906	0.101	"	1.01	ND	9.00	10-155	Low Bias		30	
4-Bromophenyl phenyl ether	0.348	0.0504	"	1.01	ND	34.6	14-128		11.8	30	
4-Chloro-3-methylphenol	0.377	0.0504	"	1.01	ND	37.4	10-134		12.0	30	
4-Chloroaniline	0.235	0.0504	"	1.01	ND	23.4	10-145		13.5	30	
4-Chlorophenyl phenyl ether	0.350	0.0504	"	1.01	ND	34.8	14-130		9.64	30	
4-Nitroaniline	0.441	0.101	"	1.01	ND	43.8	10-147		2.97	30	
4-Nitrophenol	0.402	0.101	"	1.01	ND	40.0	10-137		0.798	30	
Acenaphthene	0.342	0.0504	"	1.01	0.0574	28.3	10-146		5.82	30	
Acenaphthylene	0.339	0.0504	"	1.01	0.0343	30.3	10-134		2.77	30	
Acetophenone	0.342	0.0504	"	1.01	ND	34.0	10-116		11.5	30	
Aniline	0.187	0.202	"	1.01	ND	18.6	10-123			30	
Anthracene	0.376	0.0504	"	1.01	0.141	23.3	10-142		11.7	30	
Atrazine	0.374	0.0504	"	1.01	ND	37.2	19-115		5.75	30	
Benzaldehyde	0.283	0.0504	"	1.01	ND	28.1	10-125		9.08	30	
Benzo(a)anthracene	0.433	0.0504	"	1.01	0.336	9.65	10-158	Low Bias	4.63	30	
Benzo(a)pyrene	0.430	0.0504	"	1.01	0.311	11.9	10-180		14.9	30	
Benzo(b)fluoranthene	0.436	0.0504	"	1.01	0.278	15.6	10-200		15.1	30	
Benzo(g,h,i)perylene	0.407	0.0504	"	1.01	0.192	21.3	10-138		6.42	30	
Benzo(k)fluoranthene	0.402	0.0504	"	1.01	0.239	16.2	10-197		0.100	30	
Benzoic acid	0.915	0.0504	"	1.01	ND	90.9	10-166			30	
Benzyl alcohol	0.356	0.0504	"	1.01	ND	35.4	12-124		9.23	30	
Benzyl butyl phthalate	0.508	0.0504	"	1.01	ND	50.5	10-154		10.7	30	
Bis(2-chloroethoxy)methane	0.357	0.0504	"	1.01	ND	35.5	10-132		9.81	30	
Bis(2-chloroethyl)ether	0.359	0.0504	"	1.01	ND	35.6	10-119		7.81	30	
Bis(2-chloroisopropyl)ether	0.363	0.0504	"	1.01	ND	36.0	10-139		13.5	30	
Bis(2-ethylhexyl)phthalate	0.555	0.0504	"	1.01	ND	55.2	10-167		6.36	30	
Caprolactam	0.360	0.101	"	1.01	ND	35.8	10-132		44.0	30	Non-dir.

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31053 - EPA 3550C											
Matrix Spike Dup (BK31053-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/16/2023		
Carbazole	0.361	0.0504	mg/kg dry	1.01	0.0478	31.2	10-167		9.08	30	
Chrysene	0.417	0.0504	"	1.01	0.297	12.0	10-156		8.58	30	
Dibenzo(a,h)anthracene	0.448	0.0504	"	1.01	0.0574	38.9	10-137		5.72	30	
Dibenzofuran	0.358	0.0504	"	1.01	0.0391	31.7	10-147		12.8	30	
Diethyl phthalate	0.345	0.0504	"	1.01	ND	34.3	20-120		10.7	30	
Dimethyl phthalate	0.338	0.0504	"	1.01	ND	33.6	18-131		9.74	30	
Di-n-butyl phthalate	0.409	0.0504	"	1.01	ND	40.6	10-137		11.8	30	
Di-n-octyl phthalate	0.648	0.0504	"	1.01	ND	64.4	10-180		12.1	30	
Diphenylamine	0.394	0.101	"	1.01	ND	39.2	40-140	Low Bias	6.54	30	
Fluoranthene	0.438	0.0504	"	1.01	0.591	NR	10-160	Low Bias	19.9	30	
Fluorene	0.346	0.0504	"	1.01	0.0574	28.7	10-157		7.35	30	
Hexachlorobenzene	0.318	0.0504	"	1.01	ND	31.6	10-137		0.882	30	
Hexachlorobutadiene	0.361	0.0504	"	1.01	ND	35.9	10-132		19.0	30	
Hexachlorocyclopentadiene	ND	0.0504	"	1.01	ND		10-106	Low Bias		30	
Hexachloroethane	0.289	0.0504	"	1.01	ND	28.8	10-110		13.2	30	
Indeno(1,2,3-cd)pyrene	0.469	0.0504	"	1.01	0.257	21.1	10-144		16.2	30	
Isophorone	0.378	0.0504	"	1.01	ND	37.6	10-132		10.7	30	
Naphthalene	0.431	0.0504	"	1.01	0.0335	39.5	10-141		20.0	30	
Nitrobenzene	0.404	0.0504	"	1.01	ND	40.2	10-131		17.7	30	
N-Nitrosodimethylamine	0.322	0.0504	"	1.01	ND	32.0	10-126		11.1	30	
N-nitroso-di-n-propylamine	0.366	0.0504	"	1.01	ND	36.4	10-125		16.2	30	
N-Nitrosodiphenylamine	0.367	0.0504	"	1.01	ND	36.5	10-177		10.4	30	
Pentachlorophenol	ND	0.0504	"	1.01	ND		10-153	Low Bias		30	
Phenanthrene	0.386	0.0504	"	1.01	0.482	NR	10-148	Low Bias	11.6	30	
Phenol	0.356	0.0504	"	1.01	ND	35.4	10-126		8.36	30	
Pyrene	0.464	0.0504	"	1.01	0.568	NR	10-165	Low Bias	19.5	30	
Surrogate: SURR: 2-Fluorophenol	*0.698*		*"*	*2.01*		*34.7*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.677*		*"*	*2.01*		*33.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.386*		*"*	*1.01*		*38.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.336*		*"*	*1.01*		*33.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.658*		*"*	*2.01*		*32.7*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.371*		*"*	*1.01*		*36.9*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30961 - EPA 3550C											
Blank (BK30961-BLK1)								Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	ND	0.0198	mg/kg								
Surrogate: 1,4-Dioxane-d8	*0.361*		"	*0.495*		*73.0*	*39-127.5*				
LCS (BK30961-BS1)								Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495		106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.330*		"	*0.495*		*66.7*	*39-127.5*				
Matrix Spike (BK30961-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.524	0.0198	mg/kg	0.495	ND	106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.319*		"	*0.495*		*64.4*	*40-130*				
Matrix Spike (BK30961-MS2)	*Source sample: 23K0704-05 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495	ND	106	40-130				
Surrogate: 1,4-Dioxane-d8	*0.362*		"	*0.495*		*73.1*	*40-130*				
Matrix Spike Dup (BK30961-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.526	0.0198	mg/kg	0.495	ND	106	40-130		0.377	30	
Surrogate: 1,4-Dioxane-d8	*0.323*		"	*0.495*		*65.2*	*40-130*				
Matrix Spike Dup (BK30961-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
1,4-Dioxane	0.542	0.0198	mg/kg	0.495	ND	109	40-130		2.97	30	
Surrogate: 1,4-Dioxane-d8	*0.251*		"	*0.495*		*50.7*	*40-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Blank (BK30912-BLK1)											
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.399	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.758	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.766	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.798	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.399	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.399	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.399	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.749	"								
HFPO-DA (Gen-X)	ND	0.798	"								
11CL-PF3OUdS	ND	0.754	"								
9CL-PF3ONS	ND	0.747	"								
ADONA	ND	0.754	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.998	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.99	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.99	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*2.13*		"	*1.94*		*110*	*25-150*				
Surrogate: M5PFHxA	*2.46*		"	*2.08*		*118*	*25-150*				
Surrogate: M4PFHpA	*2.90*		"	*2.08*		*139*	*25-150*				
Surrogate: M3PFHxS	*2.06*		"	*1.97*		*105*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.59*		"	*2.08*		*76.3*	*25-150*				
Surrogate: M6PFDA	*0.790*		"	*1.04*		*76.2*	*25-150*				
Surrogate: M7PFUdA	*0.822*		"	*1.04*		*79.2*	*25-150*				

Prepared: 11/14/2023 Analyzed: 11/17/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Blank (BK30912-BLK1)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.864*		*ug/kg wet*	*1.04*		*83.3*	*25-150*				
Surrogate: M2PFTeDA	*0.675*		*"*	*1.04*		*65.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.289*		*"*	*8.33*		*3.47*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.42*		*"*	*1.99*		*71.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.38*		*"*	*4.16*		*33.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*0.893*		*"*	*2.08*		*42.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.92*		*"*	*4.16*		*46.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.93*		*"*	*4.16*		*46.4*	*25-150*				
Surrogate: M2-6:2 FTS	*1.31*		*"*	*3.95*		*33.1*	*25-200*				
Surrogate: M2-8:2 FTS	*1.15*		*"*	*3.99*		*28.9*	*25-200*				
Surrogate: M9PFNA	*0.818*		*"*	*1.04*		*78.8*	*25-150*				
Surrogate: M2-4:2 FTS	*1.51*		*"*	*3.90*		*38.7*	*25-150*				
Surrogate: d-N-MeFOSA	*0.710*		*"*	*2.08*		*34.1*	*25-150*				
Surrogate: d-N-EtFOSA	*1.16*		*"*	*2.08*		*55.8*	*25-150*				
Surrogate: M3HFPO-DA	*8.35*		*"*	*8.33*		*100*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.8*		*"*	*20.8*		*66.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*17.9*		*"*	*20.8*		*86.2*	*25-150*				
LCS (BK30912-BS1)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Perfluorobutanesulfonic acid (PFBS)	3.84	0.175	ug/kg wet	3.49		110	50-150				
Perfluorohexanoic acid (PFHxA)	3.46	0.197	"	3.94		87.7	50-150				
Perfluoroheptanoic acid (PFHpA)	2.66	0.197	"	3.94		67.3	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.53	0.180	"	3.61		97.9	50-150				
Perfluorooctanoic acid (PFOA)	4.00	0.197	"	3.94		101	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.65	0.183	"	3.67		99.4	50-150				
Perfluorononanoic acid (PFNA)	3.98	0.197	"	3.94		101	50-150				
Perfluorodecanoic acid (PFDA)	3.47	0.197	"	3.94		87.9	50-150				
Perfluoroundecanoic acid (PFUnA)	4.03	0.197	"	3.94		102	50-150				
Perfluorododecanoic acid (PFDoA)	4.17	0.197	"	3.94		106	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.56	0.197	"	3.94		116	50-150				
Perfluorotetradecanoic acid (PFTA)	3.99	0.197	"	3.94		101	50-150				
N-MeFOSAA	3.94	0.197	"	3.94		99.9	50-150				
N-EtFOSAA	4.07	0.197	"	3.94		103	50-150				
Perfluoropentanoic acid (PFPeA)	7.42	0.394	"	7.89		94.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.88	0.197	"	3.94		124	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.85	0.197	"	3.77		102	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	4.59	0.190	"	3.81		120	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	16.8	0.750	"	15.0		112	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	15.8	0.757	"	15.1		104	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.0	0.789	"	15.8		82.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	3.79	0.351	"	7.02		54.0	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.11	0.394	"	7.89		77.4	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.22	0.394	"	7.89		15.5	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	10.8	0.394	"	7.89		137	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	4.01	0.185	"	3.71		108	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
LCS (BK30912-BS1)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.2	0.740	ug/kg wet	14.8		96.2	50-150				
HFPO-DA (Gen-X)	7.45	0.789	"	7.89		94.4	50-150				
11CL-PF3OUdS	7.14	0.746	"	7.46		95.8	50-150				
9CL-PF3ONS	6.53	0.738	"	7.38		88.5	50-150				
ADONA	9.77	0.746	"	7.46		131	50-150				
Perfluorododecanesulfonic acid (PFDoS)	3.64	0.191	"	3.83		95.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	5.06	0.189	"	3.79		134	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	7.11	0.986	"	15.8		45.0	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	46.3	4.93	"	78.9		58.7	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	46.1	4.93	"	78.9		58.4	50-150				
N-MeFOSE	33.3	1.97	"	39.4		84.5	50-150				
N-MeFOSA	3.46	0.197	"	3.94		87.8	50-150				
N-EtFOSE	32.6	1.97	"	39.4		82.7	50-150				
N-EtFOSA	1.55	0.197	"	3.94		39.3	50-150	Low Bias			
Surrogate: M3PFBS	*2.14*		"	*1.91*		*112*	*25-150*				
Surrogate: M5PFHxA	*2.59*		"	*2.06*		*126*	*25-150*				
Surrogate: M4PFHpA	*3.01*		"	*2.06*		*146*	*25-150*				
Surrogate: M3PFHxS	*2.24*		"	*1.95*		*115*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*1.85*		"	*2.06*		*89.8*	*25-150*				
Surrogate: M6PFDA	*1.06*		"	*1.03*		*104*	*25-150*				
Surrogate: M7PFUdA	*1.07*		"	*1.03*		*105*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.11*		"	*1.03*		*108*	*25-150*				
Surrogate: M2PFTeDA	*0.843*		"	*1.03*		*82.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.277*		"	*8.23*		*3.37*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.57*		"	*1.97*		*79.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.75*		"	*4.11*		*42.6*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.29*		"	*2.06*		*63.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.01*		"	*4.11*		*73.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.69*		"	*4.11*		*65.5*	*25-150*				
Surrogate: M2-6:2 FTS	*1.63*		"	*3.91*		*41.7*	*25-200*				
Surrogate: M2-8:2 FTS	*1.69*		"	*3.94*		*42.9*	*25-200*				
Surrogate: M9PFNA	*1.01*		"	*1.03*		*98.2*	*25-150*				
Surrogate: M2-4:2 FTS	*1.85*		"	*3.86*		*47.9*	*25-150*				
Surrogate: d-N-MeFOSA	*1.07*		"	*2.06*		*52.1*	*25-150*				
Surrogate: d-N-EtFOSA	*1.63*		"	*2.06*		*79.5*	*25-150*				
Surrogate: M3HFPO-DA	*8.24*		"	*8.23*		*100*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.0*		"	*20.6*		*92.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*24.3*		"	*20.6*		*118*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
LCS (BK30912-BS2)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Perfluorobutanesulfonic acid (PFBS)	0.795	0.174	ug/kg wet	0.695		114	50-150				
Perfluorohexanoic acid (PFHxA)	0.706	0.196	"	0.786		89.9	50-150				
Perfluoroheptanoic acid (PFHpA)	0.589	0.196	"	0.786		74.9	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.726	0.180	"	0.719		101	50-150				
Perfluorooctanoic acid (PFOA)	0.782	0.196	"	0.786		99.6	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.595	0.183	"	0.731		81.5	50-150				
Perfluorononanoic acid (PFNA)	0.713	0.196	"	0.786		90.8	50-150				
Perfluorodecanoic acid (PFDA)	0.746	0.196	"	0.786		94.9	50-150				
Perfluoroundecanoic acid (PFUnA)	0.833	0.196	"	0.786		106	50-150				
Perfluorododecanoic acid (PFDoA)	0.939	0.196	"	0.786		119	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.902	0.196	"	0.786		115	50-150				
Perfluorotetradecanoic acid (PFTA)	0.760	0.196	"	0.786		96.7	50-150				
N-MeFOSAA	0.812	0.196	"	0.786		103	50-150				
N-EtFOSAA	0.774	0.196	"	0.786		98.5	50-150				
Perfluoropentanoic acid (PFPeA)	1.47	0.393	"	1.57		93.5	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.954	0.196	"	0.786		121	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.932	0.196	"	0.750		124	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.973	0.190	"	0.758		128	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.32	0.747	"	2.99		111	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.38	0.754	"	3.02		112	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.87	0.786	"	3.14		91.4	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	0.749	0.350	"	1.40		53.6	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	0.916	0.393	"	1.57		58.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.447	0.393	"	1.57		28.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	1.84	0.393	"	1.57		117	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.756	0.185	"	0.739		102	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.74	0.737	"	2.95		93.0	50-150				
HFPO-DA (Gen-X)	1.58	0.786	"	1.57		101	50-150				
11CL-PF3OUdS	1.25	0.743	"	1.49		84.1	50-150				
9CL-PF3ONS	1.22	0.735	"	1.47		83.2	50-150				
ADONA	2.01	0.743	"	1.49		136	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.728	0.191	"	0.762		95.5	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.780	0.189	"	0.754		103	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	1.70	0.982	"	3.14		54.0	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	9.22	4.91	"	15.7		58.6	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	6.65	4.91	"	15.7		42.3	50-150	Low Bias			
N-MeFOSE	7.16	1.96	"	7.86		91.2	50-150				
N-MeFOSA	0.650	0.196	"	0.786		82.7	50-150				
N-EtFOSE	6.81	1.96	"	7.86		86.7	50-150				
N-EtFOSA	0.275	0.196	"	0.786		35.0	50-150	Low Bias			
Surrogate: M3PFBS	*2.02*		"	*1.91*		*106*	*25-150*				
Surrogate: M5PFHxA	*2.87*		"	*2.05*		*140*	*25-150*				
Surrogate: M4PFHpA	*3.24*		"	*2.05*		*158*	*25-150*				
Surrogate: M3PFHxS	*2.50*		"	*1.94*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.19*		"	*2.05*		*107*	*25-150*				
Surrogate: M6PFDA	*1.05*		"	*1.02*		*103*	*25-150*				
Surrogate: M7PFUdA	*1.05*		"	*1.02*		*103*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
LCS (BK30912-BS2)								Prepared: 11/14/2023 Analyzed: 11/17/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.998*		*ug/kg wet*	*1.02*		*97.7*	*25-150*				
Surrogate: M2PFTeDA	*0.894*		*"*	*1.02*		*87.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.10*		*"*	*8.20*		*13.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.47*		*"*	*1.96*		*75.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.90*		*"*	*4.09*		*70.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.00*		*"*	*2.05*		*49.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.32*		*"*	*4.09*		*56.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.25*		*"*	*4.09*		*54.9*	*25-150*				
Surrogate: M2-6:2 FTS	*2.11*		*"*	*3.89*		*54.2*	*25-200*				
Surrogate: M2-8:2 FTS	*1.30*		*"*	*3.93*		*33.1*	*25-200*				
Surrogate: M9PFNA	*1.05*		*"*	*1.02*		*103*	*25-150*				
Surrogate: M2-4:2 FTS	*1.63*		*"*	*3.84*		*42.4*	*25-150*				
Surrogate: d-N-MeFOSA	*0.810*		*"*	*2.05*		*39.6*	*25-150*				
Surrogate: d-N-EtFOSA	*1.79*		*"*	*2.05*		*87.4*	*25-150*				
Surrogate: M3HFPO-DA	*8.97*		*"*	*8.20*		*109*	*25-150*				
Surrogate: d9-N-EtFOSE	*16.7*		*"*	*20.5*		*81.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*21.4*		*"*	*20.5*		*104*	*25-150*				
Matrix Spike (BK30912-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/18/2023			
Perfluorobutanesulfonic acid (PFBS)	4.57	0.214	ug/kg dry	4.27	ND	107	25-150				
Perfluorohexanoic acid (PFHxA)	4.52	0.241	"	4.83	ND	93.6	25-150				
Perfluoroheptanoic acid (PFHpA)	4.10	0.241	"	4.83	ND	85.0	25-150				
Perfluorohexanesulfonic acid (PFHxS)	4.47	0.221	"	4.42	ND	101	25-150				
Perfluorooctanoic acid (PFOA)	5.10	0.241	"	4.83	ND	106	25-150				
Perfluorooctanesulfonic acid (PFOS)	5.46	0.224	"	4.49	0.725	106	25-150				
Perfluorononanoic acid (PFNA)	5.28	0.241	"	4.83	ND	109	25-150				
Perfluorodecanoic acid (PFDA)	4.56	0.241	"	4.83	ND	94.5	25-150				
Perfluoroundecanoic acid (PFUnA)	5.43	0.241	"	4.83	ND	112	25-150				
Perfluorododecanoic acid (PFDoA)	5.36	0.241	"	4.83	ND	111	25-150				
Perfluorotridecanoic acid (PFTrDA)	5.02	0.241	"	4.83	ND	104	25-150				
Perfluorotetradecanoic acid (PFTA)	4.33	0.241	"	4.83	ND	89.6	25-150				
N-MeFOSAA	5.02	0.241	"	4.83	ND	104	25-150				
N-EtFOSAA	4.82	0.241	"	4.83	ND	99.9	25-150				
Perfluoropentanoic acid (PFPeA)	9.23	0.483	"	9.65	ND	95.6	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	5.02	0.241	"	4.83	ND	104	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.69	0.241	"	4.61	ND	102	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	5.14	0.233	"	4.66	ND	110	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	20.3	0.917	"	18.3	ND	111	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	20.2	0.927	"	18.5	ND	109	25-150				
Perfluoro-n-butanoic acid (PFBA)	13.9	0.965	"	19.3	ND	71.8	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	6.21	0.430	"	8.59	ND	72.3	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.04	0.483	"	9.65	ND	52.2	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.30	0.483	"	9.65	ND	23.8	25-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	20.4	0.483	"	9.65	ND	212	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	4.31	0.227	"	4.54	ND	94.9	25-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike (BK30912-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/18/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.8	0.905	ug/kg dry	18.1	ND	98.3	25-150				
HFPO-DA (Gen-X)	8.87	0.965	"	9.65	ND	91.9	25-150				
11CL-PF3OUdS	11.0	0.912	"	9.12	ND	121	25-150				
9CL-PF3ONS	13.4	0.903	"	9.03	ND	148	25-150				
ADONA	11.3	0.912	"	9.12	ND	124	25-150				
Perfluorododecanesulfonic acid (PFDoS)	4.12	0.234	"	4.68	ND	87.9	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	6.08	0.232	"	4.63	ND	131	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	12.5	1.21	"	19.3	ND	64.7	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	118	6.03	"	96.5	ND	122	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	105	6.03	"	96.5	ND	109	25-150				
N-MeFOSE	44.3	2.41	"	48.3	ND	91.7	25-150				
N-MeFOSA	4.71	0.241	"	4.83	ND	97.7	25-150				
N-EtFOSE	46.9	2.41	"	48.3	ND	97.2	25-150				
N-EtFOSA	13.3	0.241	"	4.83	ND	276	25-150	High Bias			
Surrogate: M3PFBS	*1.64*		"	*2.34*		*69.9*	*25-150*				
Surrogate: M5PFHxA	*2.57*		"	*2.52*		*102*	*25-150*				
Surrogate: M4PFHpA	*3.17*		"	*2.52*		*126*	*25-150*				
Surrogate: M3PFHxS	*3.15*		"	*2.38*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.90*		"	*2.52*		*115*	*25-150*				
Surrogate: M6PFDA	*1.79*		"	*1.25*		*143*	*25-150*				
Surrogate: M7PFUdA	*1.81*		"	*1.25*		*144*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.59*		"	*1.25*		*127*	*25-150*				
Surrogate: M2PFTeDA	*1.36*		"	*1.25*		*109*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.209*		"	*10.1*		*2.07*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.65*		"	*2.41*		*110*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.404*		"	*5.03*		*8.03*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.42*		"	*2.52*		*96.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.59*		"	*5.03*		*91.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.91*		"	*5.03*		*97.7*	*25-150*				
Surrogate: M2-6:2 FTS	*3.64*		"	*4.78*		*76.1*	*25-200*				
Surrogate: M2-8:2 FTS	*4.60*		"	*4.83*		*95.4*	*25-200*				
Surrogate: M9PFNA	*1.47*		"	*1.25*		*117*	*25-150*				
Surrogate: M2-4:2 FTS	*2.99*		"	*4.72*		*63.3*	*25-150*				
Surrogate: d-N-MeFOSA	*1.56*		"	*2.52*		*61.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.58*		"	*2.52*		*62.7*	*25-150*				
Surrogate: M3HFPO-DA	*10.9*		"	*10.1*		*108*	*25-150*				
Surrogate: d9-N-EtFOSE	*15.1*		"	*25.2*		*60.0*	*25-150*				
Surrogate: d7-N-MeFOSE	*17.2*		"	*25.2*		*68.2*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

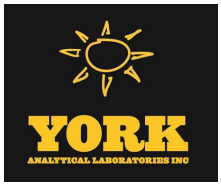
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike (BK30912-MS2)	*Source sample: 23K0704-05 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/18/2023			
Perfluorobutanesulfonic acid (PFBS)	6.54	0.358	ug/kg dry	7.16	ND	91.3	25-150				
Perfluorohexanoic acid (PFHxA)	8.19	0.405	"	8.10	0.241	98.2	25-150				
Perfluoroheptanoic acid (PFHpA)	11.9	0.405	"	8.10	ND	147	25-150				
Perfluorohexanesulfonic acid (PFHxS)	6.24	0.370	"	7.41	ND	84.2	25-150				
Perfluorooctanoic acid (PFOA)	7.59	0.405	"	8.10	ND	93.7	25-150				
Perfluorooctanesulfonic acid (PFOS)	7.75	0.376	"	7.53	ND	103	25-150				
Perfluorononanoic acid (PFNA)	7.63	0.405	"	8.10	ND	94.3	25-150				
Perfluorodecanoic acid (PFDA)	6.63	0.405	"	8.10	ND	81.8	25-150				
Perfluoroundecanoic acid (PFUnA)	10.4	0.405	"	8.10	ND	129	25-150				
Perfluorododecanoic acid (PFDoA)	9.00	0.405	"	8.10	ND	111	25-150				
Perfluorotridecanoic acid (PFTrDA)	8.67	0.405	"	8.10	ND	107	25-150				
Perfluorotetradecanoic acid (PFTA)	8.09	0.405	"	8.10	ND	100	25-150				
N-MeFOSAA	9.37	0.405	"	8.10	ND	116	25-150				
N-EtFOSAA	8.69	0.405	"	8.10	ND	107	25-150				
Perfluoropentanoic acid (PFPeA)	15.6	0.810	"	16.2	ND	96.5	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	6.48	0.405	"	8.10	ND	80.1	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	6.27	0.405	"	7.73	0.427	75.6	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	6.15	0.391	"	7.81	ND	78.8	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	27.2	1.54	"	30.8	ND	88.5	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	36.2	1.55	"	31.1	ND	116	25-150				
Perfluoro-n-butanoic acid (PFBA)	27.5	1.62	"	32.4	ND	84.8	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	23.0	0.720	"	14.4	ND	160	25-150	High Bias			
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.35	0.810	"	16.2	ND	33.0	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	6.88	0.810	"	16.2	ND	42.5	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	17.8	0.810	"	16.2	ND	110	25-150				
Perfluoro-1-pentanesulfonate (PFPeS)	6.93	0.380	"	7.61	ND	91.1	25-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	29.0	1.52	"	30.4	ND	95.5	25-150				
HFPO-DA (Gen-X)	14.6	1.62	"	16.2	ND	89.9	25-150				
11CL-PF3OUdS	36.7	1.53	"	15.3	ND	240	25-150	High Bias			
9CL-PF3ONS	40.1	1.51	"	15.1	ND	265	25-150	High Bias			
ADONA	19.8	1.53	"	15.3	ND	129	25-150				
Perfluorododecanesulfonic acid (PFDoS)	5.91	0.393	"	7.85	ND	75.2	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	7.25	0.389	"	7.77	ND	93.3	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	33.1	2.02	"	32.4	ND	102	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	153	10.1	"	162	ND	94.6	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	262	10.1	"	162	ND	162	25-150	High Bias			
N-MeFOSE	70.8	4.05	"	81.0	ND	87.5	25-150				
N-MeFOSA	7.09	0.405	"	8.10	ND	87.6	25-150				
N-EtFOSE	84.6	4.05	"	81.0	ND	104	25-150				
N-EtFOSA	8.16	0.405	"	8.10	ND	101	25-150				
Surrogate: M3PFBS	*4.57*		"	*3.93*		*116*	*25-150*				
Surrogate: M5PFHxA	*4.72*		"	*4.22*		*112*	*25-150*				
Surrogate: M4PFHpA	*2.41*		"	*4.22*		*57.1*	*25-150*				
Surrogate: M3PFHxS	*6.11*		"	*4.00*		*153*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*5.62*		"	*4.22*		*133*	*25-150*				
Surrogate: M6PFDA	*3.09*		"	*2.10*		*147*	*25-150*				
Surrogate: M7PFUdA	*2.69*		"	*2.10*		*128*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike (BK30912-MS2)	*Source sample: 23K0704-05 (Matrix Spike)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.77*		*ug/kg dry*	*2.10*		*131*	*25-150*				
Surrogate: M2PFTeDA	*2.83*		*"*	*2.10*		*134*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.885*		*"*	*16.9*		*5.24*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*5.21*		*"*	*4.04*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.51*		*"*	*8.43*		*29.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.19*		*"*	*4.22*		*52.0*	*10-150*				
Surrogate: d3-N-MeFOSAA	*5.07*		*"*	*8.43*		*60.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*5.38*		*"*	*8.43*		*63.8*	*25-150*				
Surrogate: M2-6:2 FTS	*9.62*		*"*	*8.01*		*120*	*25-200*				
Surrogate: M2-8:2 FTS	*17.2*		*"*	*8.10*		*212*	*25-200*				
Surrogate: M9PFNA	*2.60*		*"*	*2.10*		*124*	*25-150*				
Surrogate: M2-4:2 FTS	*7.48*		*"*	*7.91*		*94.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.70*		*"*	*4.22*		*40.2*	*25-150*				
Surrogate: d-N-EtFOSA	*1.72*		*"*	*4.22*		*40.8*	*25-150*				
Surrogate: M3HFPO-DA	*17.0*		*"*	*16.9*		*101*	*25-150*				
Surrogate: d9-N-EtFOSE	*19.2*		*"*	*42.2*		*45.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*19.3*		*"*	*42.2*		*45.8*	*25-150*				
Matrix Spike Dup (BK30912-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Perfluorobutanesulfonic acid (PFBS)	4.22	0.211	ug/kg dry	4.21	ND	100	25-150		7.94	35	
Perfluorohexanoic acid (PFHxA)	4.12	0.238	"	4.76	ND	86.5	25-150		9.20	35	
Perfluoroheptanoic acid (PFHpA)	3.49	0.238	"	4.76	ND	73.3	25-150		16.1	35	
Perfluorohexanesulfonic acid (PFHxS)	4.52	0.218	"	4.36	ND	104	25-150		1.08	35	
Perfluorooctanoic acid (PFOA)	4.50	0.238	"	4.76	ND	94.5	25-150		12.5	35	
Perfluorooctanesulfonic acid (PFOS)	4.80	0.221	"	4.43	0.725	91.9	25-150		13.0	35	
Perfluorononanoic acid (PFNA)	4.71	0.238	"	4.76	ND	98.9	25-150		11.5	35	
Perfluorodecanoic acid (PFDA)	4.63	0.238	"	4.76	ND	97.3	25-150		1.57	35	
Perfluoroundecanoic acid (PFUnA)	5.12	0.238	"	4.76	ND	107	25-150		5.92	35	
Perfluorododecanoic acid (PFDoA)	4.55	0.238	"	4.76	ND	95.5	25-150		16.4	35	
Perfluorotridecanoic acid (PFTrDA)	4.97	0.238	"	4.76	ND	104	25-150		1.09	35	
Perfluorotetradecanoic acid (PFTA)	4.42	0.238	"	4.76	ND	92.9	25-150		2.16	35	
N-MeFOSAA	5.23	0.238	"	4.76	ND	110	25-150		4.18	35	
N-EtFOSAA	4.78	0.238	"	4.76	ND	100	25-150		0.872	35	
Perfluoropentanoic acid (PFPeA)	8.58	0.476	"	9.52	ND	90.2	25-150		7.22	35	
Perfluoro-1-octanesulfonamide (FOSA)	5.47	0.238	"	4.76	ND	115	25-150		8.59	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.26	0.238	"	4.55	ND	93.6	25-150		9.59	35	
Perfluoro-1-decanesulfonic acid (PFDS)	4.23	0.230	"	4.59	ND	92.0	25-150		19.5	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	18.7	0.904	"	18.1	ND	103	25-150		8.11	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	19.6	0.914	"	18.3	ND	107	25-150		2.90	35	
Perfluoro-n-butanoic acid (PFBA)	12.7	0.952	"	19.0	ND	66.8	25-150		8.67	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	5.64	0.424	"	8.47	ND	66.5	25-150		9.71	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	4.20	0.476	"	9.52	ND	44.1	25-150		18.2	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	3.09	0.476	"	9.52	ND	32.4	25-150		29.1	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	20.7	0.476	"	9.52	ND	218	25-150	High Bias	1.44	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.42	0.224	"	4.47	ND	98.7	25-150		2.53	30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike Dup (BK30912-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	17.3	0.893	ug/kg dry	17.9	ND	96.9	25-150		2.79	30	
HFPO-DA (Gen-X)	9.30	0.952	"	9.52	ND	97.7	25-150		4.74	30	
11CL-PF3OUdS	10.7	0.900	"	9.00	ND	119	25-150		2.86	30	
9CL-PF3ONS	12.8	0.890	"	8.90	ND	144	25-150		4.50	30	
ADONA	10.9	0.900	"	9.00	ND	121	25-150		3.78	30	
Perfluorododecanesulfonic acid (PFDoS)	3.64	0.231	"	4.62	ND	78.8	25-150		12.3	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	5.01	0.228	"	4.57	ND	110	25-150		19.3	30	
3-Perfluoropropyl propanoic acid (FPrPA)	13.6	1.19	"	19.0	ND	71.7	25-150		8.84	30	
3-Perfluoropentyl propanoic acid (FPePA)	115	5.95	"	95.2	ND	121	25-150		2.23	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	105	5.95	"	95.2	ND	110	25-150		0.323	30	
N-MeFOSE	39.4	2.38	"	47.6	ND	82.7	25-150		11.7	30	
N-MeFOSA	4.17	0.238	"	4.76	ND	87.6	25-150		12.3	30	
N-EtFOSE	43.6	2.38	"	47.6	ND	91.5	25-150		7.41	30	
N-EtFOSA	5.70	0.238	"	4.76	ND	120	25-150		80.1	30	Non-dir.
Surrogate: M3PFBS	*1.53*		"	*2.31*		*66.2*	*25-150*				
Surrogate: M5PFHxA	*2.70*		"	*2.48*		*109*	*25-150*				
Surrogate: M4PFHpA	*3.85*		"	*2.48*		*155*	*25-150*				
Surrogate: M3PFHxS	*2.97*		"	*2.35*		*126*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.15*		"	*2.48*		*127*	*25-150*				
Surrogate: M6PFDA	*1.63*		"	*1.24*		*132*	*25-150*				
Surrogate: M7PFUdA	*1.76*		"	*1.24*		*142*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.65*		"	*1.24*		*133*	*25-150*				
Surrogate: M2PFTeDA	*1.20*		"	*1.24*		*97.2*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.214*		"	*9.94*		*2.15*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.78*		"	*2.37*		*117*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.284*		"	*4.96*		*5.74*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.15*		"	*2.48*		*86.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.05*		"	*4.96*		*81.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.16*		"	*4.96*		*84.0*	*25-150*				
Surrogate: M2-6:2 FTS	*3.78*		"	*4.71*		*80.3*	*25-200*				
Surrogate: M2-8:2 FTS	*3.96*		"	*4.76*		*83.2*	*25-200*				
Surrogate: M9PFNA	*1.45*		"	*1.24*		*117*	*25-150*				
Surrogate: M2-4:2 FTS	*2.88*		"	*4.65*		*61.9*	*25-150*				
Surrogate: d-N-MeFOSA	*1.64*		"	*2.48*		*66.0*	*25-150*				
Surrogate: d-N-EtFOSA	*1.11*		"	*2.48*		*44.7*	*25-150*				
Surrogate: M3HFPO-DA	*11.2*		"	*9.94*		*113*	*25-150*				
Surrogate: d9-N-EtFOSE	*12.4*		"	*24.8*		*49.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*15.4*		"	*24.8*		*62.1*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike Dup (BK30912-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Perfluorobutanesulfonic acid (PFBS)	11.5	0.354	ug/kg dry	7.08	ND	162	25-150	High Bias	54.8	35	Non-dir.
Perfluorohexanoic acid (PFHxA)	8.67	0.400	"	8.00	0.241	105	25-150		5.74	35	
Perfluoroheptanoic acid (PFHpA)	11.8	0.400	"	8.00	ND	148	25-150		0.332	35	
Perfluorohexanesulfonic acid (PFHxS)	6.71	0.366	"	7.32	ND	91.6	25-150		7.28	35	
Perfluorooctanoic acid (PFOA)	7.85	0.400	"	8.00	ND	98.2	25-150		3.44	35	
Perfluorooctanesulfonic acid (PFOS)	7.83	0.372	"	7.44	ND	105	25-150		1.04	35	
Perfluorononanoic acid (PFNA)	8.25	0.400	"	8.00	ND	103	25-150		7.73	35	
Perfluorodecanoic acid (PFDA)	6.85	0.400	"	8.00	ND	85.7	25-150		3.39	35	
Perfluoroundecanoic acid (PFUnA)	9.59	0.400	"	8.00	ND	120	25-150		8.50	35	
Perfluorododecanoic acid (PFDoA)	9.37	0.400	"	8.00	ND	117	25-150		3.93	35	
Perfluorotridecanoic acid (PFTrDA)	7.72	0.400	"	8.00	ND	96.5	25-150		11.5	35	
Perfluorotetradecanoic acid (PFTA)	7.72	0.400	"	8.00	ND	96.4	25-150		4.80	35	
N-MeFOSAA	9.36	0.400	"	8.00	ND	117	25-150		0.0677	35	
N-EtFOSAA	9.16	0.400	"	8.00	ND	115	25-150		5.28	35	
Perfluoropentanoic acid (PFPeA)	13.2	0.800	"	16.0	ND	82.4	25-150		17.0	35	
Perfluoro-1-octanesulfonamide (FOSA)	6.98	0.400	"	8.00	ND	87.2	25-150		7.37	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	5.98	0.400	"	7.64	0.427	72.7	25-150		4.76	35	
Perfluoro-1-decanesulfonic acid (PFDS)	6.66	0.386	"	7.72	ND	86.3	25-150		7.91	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	25.9	1.52	"	30.4	ND	85.3	25-150		4.94	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	35.1	1.54	"	30.7	ND	114	25-150		2.94	35	
Perfluoro-n-butanoic acid (PFBA)	29.3	1.60	"	32.0	ND	91.5	25-150		6.37	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	22.2	0.712	"	14.2	ND	156	25-150	High Bias	3.45	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	2.86	0.800	"	16.0	ND	17.9	25-150	Low Bias	60.7	30	Non-dir.
Perfluoro-4-oxapentanoic acid (PFMPA)	13.8	0.800	"	16.0	ND	86.0	25-150		66.7	30	Non-dir.
Perfluoro-5-oxahexanoic acid (PFMBA)	11.9	0.800	"	16.0	ND	74.1	25-150		40.1	30	Non-dir.
Perfluoro-1-pentanesulfonate (PFPeS)	6.71	0.376	"	7.52	ND	89.3	25-150		3.23	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	29.0	1.50	"	30.0	ND	96.6	25-150		0.0928	30	
HFPO-DA (Gen-X)	16.7	1.60	"	16.0	ND	104	25-150		13.7	30	
11CL-PF3OUdS	55.2	1.51	"	15.1	ND	365	25-150	High Bias	40.2	30	Non-dir.
9CL-PF3ONS	59.1	1.50	"	15.0	ND	395	25-150	High Bias	38.2	30	Non-dir.
ADONA	29.1	1.51	"	15.1	ND	192	25-150	High Bias	38.0	30	Non-dir.
Perfluorododecanesulfonic acid (PFDoS)	5.79	0.388	"	7.76	ND	74.7	25-150		1.89	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	6.71	0.384	"	7.68	ND	87.4	25-150		7.81	30	
3-Perfluoropropyl propanoic acid (FPrPA)	51.0	2.00	"	32.0	ND	159	25-150	High Bias	42.5	30	Non-dir.
3-Perfluoropentyl propanoic acid (FPePA)	240	10.0	"	160	ND	150	25-150		44.0	30	Non-dir.
3-Perfluoroheptyl propanoic acid (FHpPA)	412	10.0	"	160	ND	257	25-150	High Bias	44.5	30	Non-dir.
N-MeFOSE	71.6	4.00	"	80.0	ND	89.5	25-150		1.07	30	
N-MeFOSA	8.30	0.400	"	8.00	ND	104	25-150		15.7	30	
N-EtFOSE	81.1	4.00	"	80.0	ND	101	25-150		4.20	30	
N-EtFOSA	8.27	0.400	"	8.00	ND	103	25-150		1.36	30	
Surrogate: M3PFBS	*1.03*		"	*3.88*		*26.5*	*25-150*				
Surrogate: M5PFHxA	*2.87*		"	*4.17*		*68.9*	*25-150*				
Surrogate: M4PFHpA	*2.29*		"	*4.17*		*55.0*	*25-150*				
Surrogate: M3PFHxS	*4.73*		"	*3.95*		*120*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*4.73*		"	*4.17*		*114*	*25-150*				
Surrogate: M6PFDA	*2.80*		"	*2.08*		*135*	*25-150*				
Surrogate: M7PFUdA	*3.04*		"	*2.08*		*146*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30912 - EPA 1633 Prep											
Matrix Spike Dup (BK30912-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/18/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*2.65*		*ug/kg dry*	*2.08*		*128*	*25-150*				
Surrogate: M2PFTeDA	*2.67*		*"*	*2.08*		*129*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.13*		*"*	*16.7*		*6.74*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*5.82*		*"*	*3.99*		*146*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.62*		*"*	*8.33*		*19.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.48*		*"*	*4.17*		*59.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*4.97*		*"*	*8.33*		*59.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*6.24*		*"*	*8.33*		*74.9*	*25-150*				
Surrogate: M2-6:2 FTS	*7.86*		*"*	*7.92*		*99.3*	*25-200*				
Surrogate: M2-8:2 FTS	*14.3*		*"*	*8.00*		*179*	*25-200*				
Surrogate: M9PFNA	*2.36*		*"*	*2.08*		*113*	*25-150*				
Surrogate: M2-4:2 FTS	*3.72*		*"*	*7.82*		*47.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.44*		*"*	*4.17*		*34.6*	*25-150*				
Surrogate: d-N-EtFOSA	*1.78*		*"*	*4.17*		*42.7*	*25-150*				
Surrogate: M3HFPO-DA	*10.7*		*"*	*16.7*		*63.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*21.4*		*"*	*41.7*		*51.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*19.4*		*"*	*41.7*		*46.6*	*25-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31062 - EPA 3550C											
Blank (BK31062-BLK1)									Prepared: 11/16/2023 Analyzed: 11/17/2023		
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*52.7*		*"*	*66.4*		*79.4*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*42.1*		*"*	*66.4*		*63.4*	*30-150*				
LCS (BK31062-BS1)									Prepared: 11/16/2023 Analyzed: 11/17/2023		
4,4'-DDD	29.1	1.64	ug/kg wet	33.2		87.7	40-140				
4,4'-DDE	27.6	1.64	"	33.2		83.1	40-140				
4,4'-DDT	28.6	1.64	"	33.2		86.0	40-140				
Aldrin	28.0	1.64	"	33.2		84.2	40-140				
alpha-BHC	25.9	1.64	"	33.2		77.9	40-140				
alpha-Chlordane	28.9	1.64	"	33.2		86.9	40-140				
beta-BHC	27.9	1.64	"	33.2		84.1	40-140				
delta-BHC	23.1	1.64	"	33.2		69.7	40-140				
Dieldrin	28.1	1.64	"	33.2		84.5	40-140				
Endosulfan I	28.3	1.64	"	33.2		85.1	40-140				
Endosulfan II	27.8	1.64	"	33.2		83.7	40-140				
Endosulfan sulfate	24.1	1.64	"	33.2		72.6	40-140				
Endrin	27.9	1.64	"	33.2		84.1	40-140				
Endrin aldehyde	25.7	1.64	"	33.2		77.4	40-140				
Endrin ketone	28.7	1.64	"	33.2		86.5	40-140				
gamma-BHC (Lindane)	26.4	1.64	"	33.2		79.5	40-140				
gamma-Chlordane	29.1	1.64	"	33.2		87.5	40-140				
Heptachlor	28.4	1.64	"	33.2		85.6	40-140				
Heptachlor epoxide	28.4	1.64	"	33.2		85.6	40-140				
Methoxychlor	32.5	8.22	"	33.2		97.8	40-140				
Surrogate: Decachlorobiphenyl	*56.0*		*"*	*66.4*		*84.2*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*44.8*		*"*	*66.4*		*67.4*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31062 - EPA 3550C											
Matrix Spike (BK31062-MS1)	*Source sample: 23K0709-01 (Matrix Spike)								Prepared: 11/16/2023 Analyzed: 11/17/2023		
4,4'-DDD	30.7	1.67	ug/kg dry	33.8	ND	90.7	30-150				
4,4'-DDE	28.3	1.67	"	33.8	ND	83.8	30-150				
4,4'-DDT	31.8	1.67	"	33.8	ND	94.1	30-150				
Aldrin	29.1	1.67	"	33.8	ND	86.1	30-150				
alpha-BHC	27.2	1.67	"	33.8	ND	80.3	30-150				
alpha-Chlordane	30.5	1.67	"	33.8	ND	90.2	30-150				
beta-BHC	29.3	1.67	"	33.8	ND	86.5	30-150				
delta-BHC	25.5	1.67	"	33.8	ND	75.4	30-150				
Dieldrin	29.5	1.67	"	33.8	ND	87.3	30-150				
Endosulfan I	29.7	1.67	"	33.8	ND	87.9	30-150				
Endosulfan II	29.9	1.67	"	33.8	ND	88.3	30-150				
Endosulfan sulfate	25.4	1.67	"	33.8	ND	75.1	30-150				
Endrin	29.6	1.67	"	33.8	ND	87.4	30-150				
Endrin aldehyde	27.3	1.67	"	33.8	ND	80.7	30-150				
Endrin ketone	31.5	1.67	"	33.8	ND	93.0	30-150				
gamma-BHC (Lindane)	27.8	1.67	"	33.8	ND	82.2	30-150				
gamma-Chlordane	30.2	1.67	"	33.8	ND	89.2	30-150				
Heptachlor	30.0	1.67	"	33.8	ND	88.5	30-150				
Heptachlor epoxide	29.7	1.67	"	33.8	ND	87.9	30-150				
Methoxychlor	36.2	8.37	"	33.8	ND	107	30-150				
Surrogate: Decachlorobiphenyl	*58.1*		*"*	*67.7*		*85.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*46.8*		*"*	*67.7*		*69.1*	*30-150*				
Matrix Spike Dup (BK31062-MSD1)	*Source sample: 23K0709-01 (Matrix Spike Dup)								Prepared: 11/16/2023 Analyzed: 11/17/2023		
4,4'-DDD	30.7	1.67	ug/kg dry	33.8	ND	90.8	30-150		0.0882	30	
4,4'-DDE	28.0	1.67	"	33.8	ND	82.7	30-150		1.31	30	
4,4'-DDT	30.8	1.67	"	33.8	ND	91.1	30-150		3.23	30	
Aldrin	28.5	1.67	"	33.8	ND	84.1	30-150		2.33	30	
alpha-BHC	26.5	1.67	"	33.8	ND	78.2	30-150		2.61	30	
alpha-Chlordane	29.8	1.67	"	33.8	ND	88.2	30-150		2.29	30	
beta-BHC	28.7	1.67	"	33.8	ND	84.8	30-150		2.02	30	
delta-BHC	24.5	1.67	"	33.8	ND	72.4	30-150		4.17	30	
Dieldrin	29.0	1.67	"	33.8	ND	85.6	30-150		1.94	30	
Endosulfan I	29.1	1.67	"	33.8	ND	86.1	30-150		2.08	30	
Endosulfan II	29.4	1.67	"	33.8	ND	86.8	30-150		1.74	30	
Endosulfan sulfate	25.1	1.67	"	33.8	ND	74.1	30-150		1.33	30	
Endrin	29.3	1.67	"	33.8	ND	86.6	30-150		0.851	30	
Endrin aldehyde	27.2	1.67	"	33.8	ND	80.4	30-150		0.366	30	
Endrin ketone	30.6	1.67	"	33.8	ND	90.5	30-150		2.76	30	
gamma-BHC (Lindane)	27.1	1.67	"	33.8	ND	80.2	30-150		2.38	30	
gamma-Chlordane	29.6	1.67	"	33.8	ND	87.4	30-150		2.01	30	
Heptachlor	29.3	1.67	"	33.8	ND	86.6	30-150		2.25	30	
Heptachlor epoxide	29.2	1.67	"	33.8	ND	86.4	30-150		1.67	30	
Methoxychlor	36.5	8.37	"	33.8	ND	108	30-150		0.977	30	
Surrogate: Decachlorobiphenyl	*56.7*		*"*	*67.7*		*83.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*45.3*		*"*	*67.7*		*67.0*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31062 - EPA 3550C											
Blank (BK31062-BLK2)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0412*		"	*0.0664*		*62.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0512*		"	*0.0664*		*77.0*	*30-140*				
LCS (BK31062-BS2)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Aroclor 1016	0.223	0.0166	mg/kg wet	0.332		67.1	40-130				
Aroclor 1260	0.258	0.0166	"	0.332		77.6	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0392*		"	*0.0664*		*59.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0498*		"	*0.0664*		*75.0*	*30-140*				
Matrix Spike (BK31062-MS2)	*Source sample: 23K0704-05 (Matrix Spike)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Aroclor 1016	0.507	0.0669	mg/kg dry	1.34	ND	37.8	40-140	Low Bias			
Aroclor 1260	0.842	0.0669	"	1.34	ND	62.9	40-140				
Surrogate: Tetrachloro-m-xylene	*0.145*		"	*0.268*		*54.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.202*		"	*0.268*		*75.5*	*30-140*				
Matrix Spike Dup (BK31062-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Aroclor 1016	0.510	0.0669	mg/kg dry	1.34	ND	38.1	40-140	Low Bias	0.685	50	
Aroclor 1260	0.846	0.0669	"	1.34	ND	63.2	40-140		0.476	50	
Surrogate: Tetrachloro-m-xylene	*0.143*		"	*0.268*		*53.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.204*		"	*0.268*		*76.0*	*30-140*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30823 - EPA 3050B											
Blank (BK30823-BLK1)											Prepared: 11/13/2023 Analyzed: 11/17/2023
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	10.8	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BK30823-DUP1)	*Source sample: 23K0702-01 (Duplicate)										Prepared: 11/13/2023 Analyzed: 11/16/2023
Aluminum	7070	5.05	mg/kg dry		9250				26.6	35	
Antimony	ND	2.52	"		ND					35	
Arsenic	4.93	1.51	"		7.15				36.8	35	Non-dir.
Barium	75.1	2.52	"		96.3				24.8	35	
Beryllium	ND	0.051	"		ND					35	
Cadmium	ND	0.303	"		ND					35	
Calcium	11700	5.05	"		16300				33.0	35	
Chromium	15.6	0.505	"		18.2				14.9	35	
Cobalt	4.77	0.403	"		5.95				21.9	35	
Copper	19.0	2.02	"		24.4				24.5	35	
Iron	12200	25.2	"		15000				20.6	35	
Lead	84.4	0.505	"		88.7				4.97	35	
Magnesium	3890	5.05	"		5020				25.5	35	
Manganese	269	0.505	"		364				30.1	35	
Nickel	10.4	1.01	"		14.9				35.8	35	Non-dir.
Potassium	1080	5.05	"		1350				22.2	35	
Selenium	ND	2.52	"		2.59					35	
Silver	ND	0.509	"		ND					35	
Sodium	668	50.5	"		926				32.4	35	
Thallium	ND	2.52	"		ND					35	
Vanadium	23.8	1.01	"		28.2				17.0	35	
Zinc	36.1	2.51	"		41.6				14.0	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30823 - EPA 3050B											
Matrix Spike (BK30823-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared: 11/13/2023 Analyzed: 11/16/2023			
Aluminum	8250	5.05	mg/kg dry	202	9250	NR	75-125	Low Bias			
Antimony	7.32	2.52	"	25.2	ND	29.0	75-125	Low Bias			
Arsenic	209	1.51	"	202	7.15	99.8	75-125				
Barium	307	2.52	"	202	96.3	104	75-125				
Beryllium	4.79	0.051	"	5.05	ND	94.9	75-125				
Cadmium	5.12	0.303	"	5.05	ND	101	75-125				
Calcium	15100	5.05	"	101	16300	NR	75-125	Low Bias			
Chromium	35.0	0.505	"	20.2	18.2	83.4	75-125				
Cobalt	54.3	0.403	"	50.5	5.95	95.7	75-125				
Copper	51.7	2.02	"	25.2	24.4	108	75-125				
Iron	12400	25.2	"	101	15000	NR	75-125	Low Bias			
Lead	151	0.505	"	50.5	88.7	124	75-125				
Magnesium	4370	5.05	"	101	5020	NR	75-125	Low Bias			
Manganese	371	0.505	"	50.5	364	15.0	75-125	Low Bias			
Nickel	61.6	1.01	"	50.5	14.9	92.5	75-125				
Potassium	1320	5.05	"	101	1350	NR	75-125	Low Bias			
Selenium	200	2.52	"	202	2.59	97.7	75-125				
Silver	1.54	0.509	"	5.05	ND	30.5	75-125	Low Bias			
Sodium	1280	50.5	"	101	926	350	75-125	High Bias			
Thallium	177	2.52	"	202	ND	87.5	75-125				
Vanadium	74.0	1.01	"	50.5	28.2	90.6	75-125				
Zinc	82.6	2.51	"	50.5	41.6	81.3	75-125				
Post Spike (BK30823-PS1)	*Source sample: 23K0702-01 (Post Spike)							Prepared: 11/13/2023 Analyzed: 11/16/2023			
Aluminum	94.7		ug/mL	2.00	91.6	154	75-125	High Bias			
Antimony	0.212		"	0.250	0.005	82.9	75-125				
Arsenic	1.99		"	2.00	0.071	95.8	75-125				
Barium	2.92		"	2.00	0.954	98.5	75-125				
Beryllium	0.045		"	0.0500	-0.003	89.8	75-125				
Cadmium	0.049		"	0.0500	0.003	91.9	75-125				
Calcium	159		"	1.00	161	NR	75-125	Low Bias			
Chromium	0.372		"	0.200	0.180	96.1	75-125				
Cobalt	0.538		"	0.500	0.059	95.9	75-125				
Copper	0.506		"	0.250	0.241	106	75-125				
Iron	148		"	1.00	149	NR	75-125	Low Bias			
Lead	1.32		"	0.500	0.879	88.8	75-125				
Magnesium	50.4		"	1.00	49.8	67.8	75-125	Low Bias			
Manganese	4.05		"	0.500	3.60	90.0	75-125				
Nickel	0.626		"	0.500	0.147	95.7	75-125				
Potassium	15.1		"	1.00	13.3	179	75-125	High Bias			
Selenium	1.92		"	2.00	0.026	94.9	75-125				
Silver	0.013		"	0.0500	-0.039	26.4	75-125	Low Bias			
Sodium	11.9		"	1.00	9.17	277	75-125	High Bias			
Thallium	1.68		"	2.00	-0.005	84.2	75-125				
Vanadium	0.760		"	0.500	0.280	96.1	75-125				
Zinc	0.878		"	0.500	0.412	93.3	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30823 - EPA 3050B											
Reference (BK30823-SRM1)								Prepared: 11/13/2023 Analyzed: 11/16/2023			
Aluminum	7540	4.17	mg/kg wet	9490		79.4	45.4-128.6				
Antimony	51.3	2.08	"	248		20.7	3-103.2				
Arsenic	122	1.25	"	163		75.0	68.7-100.6				
Barium	285	2.08	"	319		89.3	82.5-115.7				
Beryllium	95.2	0.042	"	119		80.0	77.7-109.2				
Cadmium	103	0.250	"	130		79.2	75.2-106.2				
Calcium	4260	4.17	"	5000		85.2	80.6-114.4				
Chromium	130	0.417	"	153		84.6	77.8-111.8				
Cobalt	131	0.333	"	153		85.5	79.1-109.8				
Copper	223	1.67	"	245		90.9	80.4-111				
Iron	6760	20.8	"	7540		89.6	69.8-144.6				
Lead	184	0.417	"	220		83.4	80-113.6				
Magnesium	1850	4.17	"	1980		93.5	85.9-129.3				
Manganese	365	0.417	"	431		84.6	79.6-114.2				
Nickel	149	0.830	"	175		84.9	76.6-108.6				
Potassium	1440	4.17	"	1570		91.8	80.9-131.2				
Selenium	139	2.08	"	156		89.4	80.8-118.6				
Silver	43.7	0.420	"	82.9		52.7	76.7-114.7	Low Bias			
Sodium	949	41.7	"	453		209	72.2-119.7	High Bias			
Thallium	75.3	2.08	"	99.4		75.7	75.8-110.7	Low Bias			
Vanadium	137	0.830	"	170		80.5	75.3-114.1				
Zinc	318	2.08	"	201		158	79.6-115.92	High Bias			

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31084 - EPA 7473 soil											
Blank (BK31084-BLK1)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31084-DUP1)	*Source sample: 23K0655-23 (Duplicate)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	0.138	0.0368	mg/kg dry		0.168				19.0	35	
Matrix Spike (BK31084-MS1)	*Source sample: 23K0655-23 (Matrix Spike)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	0.601		mg/kg	0.500	0.136	92.8	75-125				
Reference (BK31084-SRM1)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	21.971		mg/kg	18.2		121	59.9-140.1				
Batch BK31085 - EPA 7473 soil											
Blank (BK31085-BLK1)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31085-DUP1)	*Source sample: 23K0702-01 (Duplicate)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	0.633	0.0363	mg/kg dry		0.346				58.6	35	Non-dir.
Matrix Spike (BK31085-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	0.838		mg/kg	0.500	0.286	110	75-125				
Reference (BK31085-SRM1)								Prepared: 11/16/2023 Analyzed: 11/17/2023			
Mercury	18.538		mg/kg	18.2		102	59.9-140.1				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31003 - Analysis Preparation Soil											
Blank (BK31003-BLK1)								Prepared & Analyzed: 11/15/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK31003-DUP1)	*Source sample: 23K0702-01 (Duplicate)							Prepared & Analyzed: 11/15/2023			
Cyanide, total	ND	0.606	mg/kg dry		ND					15	
Matrix Spike (BK31003-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/15/2023			
Cyanide, total	6.91	0.606	mg/kg dry	12.1	ND	57.0	79.6-107	Low Bias			
Matrix Spike Dup (BK31003-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2023			
Cyanide, total	10.4	0.606	mg/kg dry	12.1	ND	86.0	79.6-107		40.6	200	
Reference (BK31003-SRM1)								Prepared & Analyzed: 11/15/2023			
Cyanide, total	166		ug/mL	131		127	44.4-156.5				
Batch BK31033 - EPA SW846-3060											
Blank (BK31033-BLK1)								Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK31033-DUP1)	*Source sample: 23K0702-01 (Duplicate)							Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	ND	0.606	mg/kg dry		ND					35	
Duplicate (BK31033-DUP2)	*Source sample: 23K0704-05 (Duplicate)							Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	ND	1.02	mg/kg dry		ND					35	
Matrix Spike (BK31033-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	14.6	0.606	mg/kg dry	24.2	ND	60.4	75-125	Low Bias			

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31033 - EPA SW846-3060											
Matrix Spike (BK31033-MS2)	*Source sample: 23K0704-05 (Matrix Spike)								Prepared & Analyzed: 11/16/2023		
Chromium, Hexavalent	ND	50.9	mg/kg dry	40.7	ND		75-125	Low Bias			
Matrix Spike Dup (BK31033-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/16/2023		
Chromium, Hexavalent	12.0	0.606	mg/kg dry	24.2	ND	49.6	75-125	Low Bias	19.6	200	
Matrix Spike Dup (BK31033-MSD2)	*Source sample: 23K0704-05 (Matrix Spike Dup)								Prepared & Analyzed: 11/16/2023		
Chromium, Hexavalent	ND	50.9	mg/kg dry	40.7	ND		75-125	Low Bias		200	
Reference (BK31033-SRM1)									Prepared & Analyzed: 11/16/2023		
Chromium, Hexavalent	132		mg/L	227		58.3	42.3-157.7				
Reference (BK31033-SRM2)									Prepared & Analyzed: 11/16/2023		
Chromium, Hexavalent	126		mg/L	227		55.4	42.3-157.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30903 - % Solids Prep											
Duplicate (BK30903-DUP1)	*Source sample: 23K0660-06 (Duplicate)							Prepared & Analyzed: 11/14/2023			
% Solids	83.3	0.100	%		81.4				2.35	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K0672-01	23SP2 (0-2.5)	40mL Vial with Stir Bar-Cool 4° C
23K0672-02	23SP2 (15-17.5)	40mL Vial with Stir Bar-Cool 4° C
23K0672-03	23SP2 (18-20)	40mL Vial with Stir Bar-Cool 4° C
23K0672-04	23SP2 (27.5-30)	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-11	The spike recovery or RPD may not be available or within QC limits because of sample dilution due to high analyte concentration and/or matrix interference.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
N	The Tentatively Identified Compound reported indicates the presence of an possible analyte or class of analyte that has been 'tentatively identified' and the associated numerical value represents its estimated concentration.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference

Wet — The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0672

~~120 Research Drive Stratford, CT 06615~~ ~~132-02 89th Ave Queens, NY 11418~~ ~~56 Church Hill Rd. #2 Newtown, CT 06470~~ clientservices@yorklab.com www.yorklab.com 800-306-YORK Page _____ of _____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number

YOUR Project Name: 100 E. 149th. st. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)**

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Finest Ataman

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil | Other

Samples From: New York; New Jersey; Connecticut; Pennsylvania; Other:

Report / EDD Type (circle selections): Summary Report; QA Report; CMDP; Standard Excel EDD; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; Other:_____; EQuIS (Standard); NYSDEC EQuIS; NJDKQP; NJDEP SRP HazSite

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP2 (0-2.5)	S	11/7/23 1:15	TCL + 10 VOCs and TICs EPA 8260C	2 8oz Jars	
23SP2 (15-17.5)		1:30	TCL + 20 SVOCs and TICs, Pesticides	4 vials	
23SP2 (18-20)		2:00	and PCBs, 21 PFAS compounds,	1 Pfas	
23SP2 (27.5-30)		2:30	method 1633, 1,4 dioxane		
			EPA 8270 SIM, full TAL		
			metals list + Cyanide and		
			hexavalent chromium		

Comments: TerraCores frozen at 5/4 KB

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply) HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____ ZnAc ____ Ascorbic Acid ____ Other: _____

Special Instruction: Field Filtered; Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/9/23 220 PM	KBathyork	11/9/23 220 PM	KBathyork	11/9/23 18:15
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/9/23 18:15 1.7 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 11/21/2023
Client Project ID: 220293 100 East 149th Street Bronx, NY
York Project (SDG) No.: 23K0753

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/21/2023
Client Project ID: 220293 100 East 149th Street Bronx, NY
York Project (SDG) No.: 23K0753

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 10, 2023 and listed below. The project was identified as your project: **220293 100 East 149th Street Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K0753-01	23SP7 (0-2.5ft)	Soil	11/09/2023	11/10/2023
23K0753-02	23SP7 (12-14ft)	Soil	11/09/2023	11/10/2023
23K0753-03	23SP7 (14-18ft)	Soil	11/09/2023	11/10/2023
23K0753-04	23SP7 (27.5-30ft)	Soil	11/09/2023	11/10/2023
23K0753-05	Trip Blank	Water	11/09/2023	11/10/2023
23K0753-06	Field Blank PFAS	Water	11/09/2023	11/10/2023

General Notes for York Project (SDG) No.: 23K0753

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 11/21/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.049	0.098	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	CCVE	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
79-20-9	Methyl acetate	ND	CCVE	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:28	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:28	SS
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/15/2023 18:28	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/15/2023 18:28	SS
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
100-42-5	Styrene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:28	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
108-88-3	Toluene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND	CCVE, QL-02	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723	11/15/2023 18:28	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.0025	0.0049	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0074	0.015	1	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:28	SS

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.6 %*			*77-125*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*			*85-120*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*86.5 %*			*76-130*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:28	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0639**	J	mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 19:49	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 19:49	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 19:49	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,PADEP-68-04440	11/18/2023 19:49	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 19:49	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,PADEP-68-04440	11/18/2023 19:49	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,PADEP-68-04440	11/18/2023 19:49	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 19:49	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 19:49	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 19:49	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 19:49	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 19:49	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 19:49	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 19:49	KH

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.281**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	**3- & 4-Methylphenols**	**0.0550**	J	mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.575**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	**Acenaphthylene**	**0.137**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.186	0.372	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**1.10**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.186	0.372	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**1.96**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**2.18**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**2.43**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**1.34**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.842**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	**Benzyl butyl phthalate**	**0.376**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	**Carbazole**	**0.375**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
218-01-9	**Chrysene**	**1.72**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.306**	CCVE	mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	**Dibenzofuran**	**0.358**		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 19:49	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0930	0.186	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:			
206-44-0	**Fluoranthene**	**4.32**		mg/kg dry	0.233	0.465	10	EPA 8270D	11/17/2023 08:10	11/18/2023 03:41	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	**Fluorene**	**0.485**		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.65**	CCVE	mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
78-59-1	Isophorone	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.912**		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**4.15**		mg/kg dry	0.233	0.465	10	EPA 8270D	11/17/2023 08:10	11/18/2023 03:41	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0466	0.0930	2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**4.37**		mg/kg dry	0.233	0.465	10	EPA 8270D	11/17/2023 08:10	11/18/2023 03:41	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*41.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*40.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*38.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*40.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*54.5 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*45.6 %*	*24-116*

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0190	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/16/2023 21:06	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*67.6 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.125	0.199	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0597	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.118	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.202	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.194	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.248**		ug/kg dry	0.188	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.213	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.215	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.223	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.184	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.141	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.116	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.167	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.219	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.123	0.451	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.164	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.175	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.215	0.217	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.670	0.856	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.850	0.865	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.123	0.901	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.157	0.401	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.217	0.451	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0698	0.451	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.108	0.451	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.177	0.212	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.670	0.845	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.685	0.901	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.350	0.852	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.277	0.843	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.196	0.852	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.190	0.219	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.140	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:40	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.714	1.13	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.36	5.63	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.69	5.63	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.688	2.25	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.203	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.785	2.25	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.223	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:40	ER

Sample Information

Client Sample ID: 23SP7 (0-2.5ft)

York Sample ID: 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
	Surrogate: M3PFBS	*71.3 %*			*25-150*						
	Surrogate: M5PFHxA	*86.7 %*			*25-150*						
	Surrogate: M4PFHpA	*120 %*			*25-150*						
	Surrogate: M3PFHxS	*115 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*92.0 %*			*25-150*						
	Surrogate: M6PFDA	*105 %*			*25-150*						
	Surrogate: M7PFUdA	*96.0 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*76.6 %*			*25-150*						
	Surrogate: M2PFTeDA	*65.7 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.47 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*104 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*28.6 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*67.2 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*79.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*74.2 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*112 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*141 %*			*25-200*						
	Surrogate: M9PFNA	*116 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*70.5 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*41.1 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*50.6 %*			*25-150*						
	Surrogate: M3HFPO-DA	*92.8 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*43.9 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*44.6 %*			*25-150*						

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown PAH RT 10.8**	**0.832**	J	mg/kg dry			2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:			
NA	**Unknown PAH RT 10.9**	**0.866**	J	mg/kg dry			2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:			
NA	**Unknown PAH RT 17.6**	**1.25**	J	mg/kg dry			2	EPA 8270D	11/17/2023 08:10	11/18/2023 19:49	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	**4,4'-DDT**	**1.88**		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
309-00-2	Aldrin	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	37.0	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.85	5	EPA 8081B	11/16/2023 08:29	11/17/2023 17:54	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.85	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 17:54	BCJ
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.85	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 17:54	BCJ
76-44-8	Heptachlor	ND		ug/kg dry	1.85	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 17:54	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.85	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 17:54	BCJ
72-43-5	Methoxychlor	ND		ug/kg dry	9.26	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 17:54	BCJ
8001-35-2	Toxaphene	ND		ug/kg dry	93.7	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 17:54	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.1 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*69.4 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 17:58	BCJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 17:58	BCJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 17:58	BCJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 17:58	BCJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 17:58	BCJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 17:58	BCJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29 NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044	11/17/2023 17:58	BCJ
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0187	1	EPA 8082A Certifications:	11/16/2023 08:29	11/17/2023 17:58	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*65.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*70.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP7 (0-2.5ft)** **York Sample ID:** **23K0753-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

7429-90-5	**Aluminum**	**7520**		mg/kg dry	4.69	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.35	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.37**		mg/kg dry	1.41	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**130**		mg/kg dry	2.34	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.047	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.817**		mg/kg dry	0.282	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**48200**	B	mg/kg dry	4.69	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**26.7**		mg/kg dry	0.470	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.63**		mg/kg dry	0.375	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**49.4**		mg/kg dry	1.88	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**15000**	M-CCV 1	mg/kg dry	23.5	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**277**		mg/kg dry	0.470	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**21600**		mg/kg dry	4.70	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**225**		mg/kg dry	0.470	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.1**		mg/kg dry	0.935	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1530**		mg/kg dry	4.70	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.473	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**1290**	M-CCV 1	mg/kg dry	46.9	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.35	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**39.3**		mg/kg dry	0.935	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**63.5**		mg/kg dry	2.34	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:02	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP7 (0-2.5ft) **York Sample ID:** 23K0753-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:40 pm	11/10/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.287**		mg/kg dry	0.0338	1	EPA 7473	11/17/2023 08:29	11/18/2023 13:35	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.563	1	EPA 7196A	11/16/2023 09:31	11/16/2023 16:58	JAMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.563	1	EPA 9014/9010C	11/16/2023 09:44	11/16/2023 16:46	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.8**		%	0.100	1	SM 2540G	11/15/2023 10:20	11/15/2023 14:40	VR
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D	11/14/2023 09:00	11/15/2023 18:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D	11/14/2023 09:00	11/15/2023 18:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D	11/14/2023 09:00	11/15/2023 18:54	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**12**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, QL-02	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**21**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	5.8	12	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	CCVE	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, QL-02	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.58	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.58	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND	CCVE, QL-02	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	CCVE	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**17**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	CCVE	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**5.8**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**3.2**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND	CCVE	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**2.7**		mg/kg dry	0.54	1.1	200	EPA 8260D Certifications:	11/17/2023 09:00	11/17/2023 15:58	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		mg/kg dry	0.58	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
104-51-8	**n-Butylbenzene**	**9.2**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:54	SS
103-65-1	**n-Propylbenzene**	**11**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:54	SS
95-47-6	o-Xylene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/15/2023 18:54	SS
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.58	1.2	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/15/2023 18:54	SS
99-87-6	**p-Isopropyltoluene**	**2.6**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:54	SS
135-98-8	**sec-Butylbenzene**	**2.5**		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/15/2023 18:54	SS
100-42-5	Styrene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE, QL-02	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/15/2023 18:54	SS
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
108-88-3	Toluene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	CCVE, QL-02	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
110-57-6	* trans-1,4-dichloro-2-butene	ND	CCVE, QL-02	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723	11/15/2023 18:54	SS
79-01-6	Trichloroethylene	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
75-01-4	Vinyl Chloride	ND	CCVE	mg/kg dry	0.29	0.58	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.88	1.8	100	EPA 8260D Certifications:	11/14/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/15/2023 18:54	SS

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*70.7 %*	S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.0 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*114 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Benzene ethenylethyl isomer**	**22**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Benzene ethyldimethyl isomer**	**14**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Benzene ethylmethyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Benzene methylpropyl isomer**	**9.5**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Benzene tetramethyl isomer**	**21**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Cyclohexane dimethyl trans ...**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Heptane methyl isomer**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Indene dihydrodimethyl isomer**	**9.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Indene dihydromethyl isomer**	**20**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS
NA	**Propanenitrile phenylamino ...**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/14/2023 09:00	11/15/2023 18:54	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 20:19	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 20:19	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 20:19	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 20:19	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 20:19	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 20:19	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 20:19	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 20:19	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 20:19	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 20:19	KH

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.118**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.369**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 20:19	KH
62-53-3	Aniline	ND		mg/kg dry	0.194	0.388	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 20:19	KH
120-12-7	**Anthracene**	**0.646**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 20:19	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 20:19	KH
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.194	0.388	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/18/2023 20:19	KH
56-55-3	**Benzo(a)anthracene**	**1.28**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
50-32-8	**Benzo(a)pyrene**	**1.65**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
205-99-2	**Benzo(b)fluoranthene**	**1.66**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
191-24-2	**Benzo(g,h,i)perylene**	**1.02**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
207-08-9	**Benzo(k)fluoranthene**	**0.600**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 20:19	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 20:19	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 20:19	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 20:19	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 20:19	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 20:19	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 20:19	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 20:19	KH
86-74-8	**Carbazole**	**0.208**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
218-01-9	**Chrysene**	**1.29**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.207**	CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH
132-64-9	**Dibenzofuran**	**0.152**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 20:19	KH

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
206-44-0	**Fluoranthene**	**2.67**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.310**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.08**	CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.435**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**2.59**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**2.97**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*53.8 %*	*20-108*

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
13127-88-3	*Surrogate: SURR: Phenol-d6*	*57.9 %*			*23-114*						
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*54.1 %*			*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*47.2 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*57.6 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*54.0 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/16/2023 21:40	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*63.1 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.129	0.206	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0616	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.122	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.208	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.200	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.205**	J	ug/kg dry	0.194	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.220	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.222	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.230	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.189	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.145	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.120	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.172	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.225	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.127	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.170	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.180	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.222	0.224	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.691	0.883	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.877	0.892	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.127	0.929	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.161	0.413	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.224	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0720	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.111	0.465	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.182	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.691	0.871	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.706	0.929	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.361	0.878	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.286	0.869	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.202	0.878	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.196	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.144	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 12:56	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.736	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.44	5.81	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.74	5.81	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.710	2.32	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.209	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.810	2.32	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.230	0.232	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 12:56	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*78.6 %*	*25-150*
Surrogate: M5PFHxA	*94.3 %*	*25-150*
Surrogate: M4PFHpA	*106 %*	*25-150*
Surrogate: M3PFHxS	*133 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*96.5 %*	*25-150*
Surrogate: M6PFDA	*129 %*	*25-150*
Surrogate: M7PFUdA	*97.5 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*81.4 %*	*25-150*
Surrogate: M2PFTeDA	*74.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.10 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*132 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*23.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*66.1 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*77.7 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*70.1 %*	*25-150*
Surrogate: M2-6:2 FTS	*94.5 %*	*25-200*
Surrogate: M2-8:2 FTS	*106 %*	*25-200*
Surrogate: M9PFNA	*109 %*	*25-150*
Surrogate: M2-4:2 FTS	*52.8 %*	*25-150*
Surrogate: d-N-MeFOSA	*42.5 %*	*25-150*
Surrogate: d-N-EtFOSA	*50.6 %*	*25-150*
Surrogate: M3HFPO-DA	*91.5 %*	*25-150*
Surrogate: d9-N-EtFOSE	*46.1 %*	*25-150*
Surrogate: d7-N-MeFOSE	*49.6 %*	*25-150*

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Semi-Volatiles, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.0**	**1.99**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Benzene Isomer RT 5.1**	**1.60**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Benzene Isomer RT 5.4**	**0.847**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Benzene Isomer RT 5.5**	**5.73**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Benzene Isomer RT 5.6**	**1.47**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Benzene Isomer RT 5.8**	**0.804**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Benzene Isomer RT 5.9**	**0.937**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Benzene Isomer RT 6.1**	**1.41**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Cyclohexane Isomer RT**	**0.863**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Cyclohexane Isomer RT 4.6**	**1.14**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Methyl Propyl Benzene Isome...**	**3.20**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Trimethyl Cyclohexane Isome...**	**1.20**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown Hydrocarbon RT 4.1**	**1.43**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown Hydrocarbon RT 4.6**	**0.781**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown Hydrocarbon RT 4.8**	**0.688**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown PAH RT 10.9**	**0.681**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown RT 4.5**	**1.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown RT 4.8**	**2.48**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown RT 5.8**	**0.902**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH
NA	**Unknown RT5.5**	**1.66**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 20:19	KH

Pesticides, 8081 target list **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	38.6	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.65	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	97.6	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:16	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*52.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.8 %*	*30-150*

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:12	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*59.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9870**		mg/kg dry	4.89	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.08**		mg/kg dry	1.47	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**91.9**		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.049	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.293	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**19200**	B	mg/kg dry	4.89	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**18.3**		mg/kg dry	0.489	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**8.45**		mg/kg dry	0.391	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**89.3**		mg/kg dry	1.96	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**19300**	M-CCV 1	mg/kg dry	24.4	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**83.5**		mg/kg dry	0.489	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**6370**		mg/kg dry	4.89	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**233**		mg/kg dry	0.489	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**20.0**		mg/kg dry	0.974	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**3320**		mg/kg dry	4.89	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.19**		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.493	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**463**	M-CCV 1	mg/kg dry	48.9	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**36.1**		mg/kg dry	0.974	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**43.1**		mg/kg dry	2.43	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:05	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.170**		mg/kg dry	0.0352	1	EPA 7473	11/17/2023 08:29	11/18/2023 13:35	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**1.31**		mg/kg dry	0.587	1	EPA 7196A	11/16/2023 09:31	11/16/2023 16:58	JAMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23SP7 (12-14ft) **York Sample ID:** 23K0753-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:45 pm	11/10/2023

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**10.9**		mg/kg dry	0.587	1	EPA 9014/9010C	11/16/2023 09:44	11/16/2023 16:46	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.2**		%	0.100	1	SM 2540G	11/15/2023 10:20	11/15/2023 14:40	VR
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND	QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND	QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**1.6**	QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D	11/16/2023 09:00	11/16/2023 15:07	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-67-8	**1,3,5-Trimethylbenzene**	**15**	QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SS
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
123-91-1	1,4-Dioxane	ND		mg/kg dry	6.7	13	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
78-93-3	2-Butanone	ND	CCVE	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
591-78-6	2-Hexanone	ND	CCVE, QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-10-1	4-Methyl-2-pentanone	ND	CCVE, QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.67	1.3	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-02-8	Acrolein	ND		mg/kg dry	0.67	1.3	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
107-13-1	Acrylonitrile	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
71-43-2	Benzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-97-5	Bromochloromethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SS
75-27-4	Bromodichloromethane	ND	QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-25-2	Bromoform	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
74-83-9	Bromomethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
75-15-0	Carbon disulfide	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS
108-90-7	Chlorobenzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SS

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**22**		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**7.8**		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**2.9**		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**99**		mg/kg dry	0.67	1.3	200	EPA 8260D Certifications:	11/17/2023 09:00	11/17/2023 16:25	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.67	1.3	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**7.1**	QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**10**		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	o-Xylene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.67	1.3	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**1.9**		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	**sec-Butylbenzene**	**2.0**		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND	CCVE, QL-02	mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.34	0.67	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	1.0	2.0	100	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*71.5 %*	S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.1 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Benzene ethenylethyl isomer**	**21**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Benzene ethyldimethyl isomer**	**28**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Benzene ethylmethyl isomer**	**23**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Benzene tetramethyl isomer**	**14**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Cyclohexane dimethyl trans ...**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Heptane dimethyl isomer**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Heptane methyl isomer**	**15**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Hexane methyl isomer**	**10**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Indene dihydrodimethyl isomer**	**17**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Indene dihydromethyl isomer**	**18**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS
NA	**Octane methyl isomer**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:07	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 04:57	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 04:57	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 04:57	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 04:57	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 04:57	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 04:57	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 04:57	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 04:57	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 04:57	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 04:57	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 04:57	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 04:57	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 04:57	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 04:57	KH

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
91-57-6	**2-Methylnaphthalene**	**1.32**		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
95-48-7	2-Methylphenol	ND	ICVE	mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH
62-53-3	Aniline	ND		mg/kg dry	0.244	0.487	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH
120-12-7	**Anthracene**	**0.113**	J	mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH
92-87-5	Benzidine	ND		mg/kg dry	0.244	0.487	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/18/2023 04:57	KH
56-55-3	**Benzo(a)anthracene**	**0.174**		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
50-32-8	**Benzo(a)pyrene**	**0.145**		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
205-99-2	**Benzo(b)fluoranthene**	**0.180**		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.106**	J	mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
207-08-9	**Benzo(k)fluoranthene**	**0.0642**	J	mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.122	0.243	2	EPA 8270D Certifications:	11/17/2023 08:10 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/18/2023 04:57	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
218-01-9	**Chrysene**	**0.161**		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/18/2023 04:57	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D Certifications:	11/17/2023 08:10 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/18/2023 04:57	KH

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.122	0.243	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:			
206-44-0	**Fluoranthene**	**0.422**		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	**Fluorene**	**0.121**	J	mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
77-47-4	Hexachlorocyclopentadiene	ND	ICVE	mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.0963**	J	mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
78-59-1	Isophorone	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.951**		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.502**		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.424**		mg/kg dry	0.0610	0.122	2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*69.7 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*67.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*74.8 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.5 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*74.1 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*75.5 %*	*24-116*

Sample Information

Client Sample ID: **23SP7 (14-18ft)** **York Sample ID:** **23K0753-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0183	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/16/2023 21:58	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.162	0.258	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0774	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.153	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.261	0.267	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.251	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.244	0.272	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.276	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.279	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.289	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.238	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.182	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.150	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.216	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.283	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.159	0.584	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.213	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.226	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.279	0.282	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.869	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.10	1.12	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.159	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.203	0.520	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.282	0.584	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0905	0.584	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.140	0.584	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.229	0.274	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.869	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.888	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.454	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.359	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.254	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.247	0.283	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.181	0.280	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:12	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.925	1.46	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.06	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.19	7.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.892	2.92	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.263	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.02	2.92	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.289	0.292	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:12	ER

Sample Information

Client Sample ID: **23SP7 (14-18ft)** **York Sample ID:** **23K0753-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**			**Acceptance Range**						
	Surrogate: M3PFBS	*53.8 %*			*25-150*						
	Surrogate: M5PFHxA	*70.8 %*			*25-150*						
	Surrogate: M4PFHpA	*117 %*			*25-150*						
	Surrogate: M3PFHxS	*121 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*101 %*			*25-150*						
	Surrogate: M6PFDA	*110 %*			*25-150*						
	Surrogate: M7PFUdA	*106 %*			*25-150*						
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*86.1 %*			*25-150*						
	Surrogate: M2PFTeDA	*68.5 %*			*10-150*						
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.16 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*105 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*10.3 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*73.1 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*76.0 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*85.6 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*84.8 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*88.8 %*			*25-200*						
	Surrogate: M9PFNA	*111 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*57.1 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*49.3 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*54.7 %*			*25-150*						
	Surrogate: M3HFPO-DA	*68.6 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*49.0 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*49.5 %*			*25-150*						

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Semi-Volatiles, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.4**	**3.80**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Benzene Isomer RT 5.8 (01)**	**1.49**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Benzene Isomer RT 5.8 (02)**	**3.25**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Benzene Isomer RT 5.8 (03)**	**9.55**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Benzene Isomer RT 5.9**	**2.00**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Benzene Isomer RT 6.3**	**1.68**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Cyclohexane Isomer RT 5.2**	**2.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Dimethyl Cyclohexane Isomer...**	**1.69**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 4.0 (01)**	**2.59**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 4.0 (02)**	**2.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 4.5 (01)**	**1.98**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 4.5 (02)**	**1.85**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 4.7**	**4.02**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 5.1 (01)**	**1.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 5.1 (02)**	**1.51**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 5.3 (01)**	**1.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown Hydrocarbon RT 5.3 (02)**	**1.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown RT 4.1**	**1.88**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown RT 4.2**	**1.88**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown RT 5.0**	**2.40**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH
NA	**Unknown RT 5.3**	**4.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 04:57	KH

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 5.8**	**2.45**	J	mg/kg dry			2	EPA 8270D	11/17/2023 08:10	11/18/2023 04:57	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	48.3	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.41	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	12.1	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	122	5	EPA 8081B	11/16/2023 08:29	11/17/2023 18:48	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*78.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*86.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0244	1	EPA 8082A	11/16/2023 08:29	11/17/2023 18:54	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*67.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*79.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10800**		mg/kg dry	6.12	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	3.06	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**10.4**		mg/kg dry	1.84	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**195**		mg/kg dry	3.05	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	**Beryllium**	**0.165**		mg/kg dry	0.062	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/kg dry	0.367	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**7270**	B	mg/kg dry	6.12	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**26.0**		mg/kg dry	0.612	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**8.40**		mg/kg dry	0.489	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**252**		mg/kg dry	2.45	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**16800**	M-CCV 1	mg/kg dry	30.6	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**301**		mg/kg dry	0.612	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**2000**		mg/kg dry	6.12	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**348**		mg/kg dry	0.612	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.7**		mg/kg dry	1.22	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1190**		mg/kg dry	6.12	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**4.96**		mg/kg dry	3.06	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.617	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**605**	M-CCV 1	mg/kg dry	61.2	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.06	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**37.3**		mg/kg dry	1.22	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**62.8**		mg/kg dry	3.05	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:08	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP7 (14-18ft) **York Sample ID:** 23K0753-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 12:51 pm	11/10/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**4.53**		mg/kg dry	0.0441	1	EPA 7473	11/17/2023 08:29	11/18/2023 13:35	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.734	1	EPA 7196A	11/16/2023 09:31	11/16/2023 16:58	JAMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.734	1	EPA 9014/9010C	11/16/2023 09:44	11/16/2023 16:46	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**68.1**		%	0.100	1	SM 2540G	11/15/2023 10:20	11/15/2023 14:40	VR
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	11/16/2023 09:00	11/16/2023 15:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D	11/16/2023 09:00	11/16/2023 15:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D	11/16/2023 09:00	11/16/2023 15:59	SS
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP7 (27.5-30ft)** **York Sample ID:** **23K0753-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE, QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		mg/kg dry	0.040	0.080	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	CCVE	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE, QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	mg/kg dry	0.0040	0.0080	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.0040	0.0080	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		mg/kg dry	0.0040	0.0080	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0040	0.0080	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND	CCVE, QL-02	mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0020	0.0040	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0060	0.012	1	EPA 8260D Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.5 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.4 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*79.6 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/16/2023 09:00	11/16/2023 15:59	SS

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 05:33	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 05:33	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 05:33	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 05:33	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 05:33	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/17/2023 08:10	11/18/2023 05:33	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/17/2023 08:10	11/18/2023 05:33	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
51-28-5	2,4-Dinitrophenol	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
95-48-7	2-Methylphenol	ND	ICVE	mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 08:10	11/18/2023 05:33	KH

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.192	0.385	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.192	0.385	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	Chrysene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0961	0.192	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH
206-44-0	Fluoranthene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-73-7	Fluorene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	ICVE	mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	Phenanthrene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-95-2	Phenol	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	Pyrene	ND		mg/kg dry	0.0482	0.0961	2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*64.4 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*61.6 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*56.9 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*56.6 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*74.6 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*67.8 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications:	11/16/2023 08:36	11/16/2023 22:15	KH NELAC-NY10854

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*66.7 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP7 (27.5-30ft)** **York Sample ID:** **23K0753-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.128	0.204	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0610	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.121	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.206	0.211	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.198	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.192	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.217	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.220	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.228	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.188	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.144	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.119	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.170	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.223	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.125	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.168	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.178	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.220	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.685	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.869	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.134**	J	ug/kg dry	0.125	0.921	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.160	0.410	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.222	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0713	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.110	0.460	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.181	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.685	0.863	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.700	0.921	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.358	0.870	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.283	0.861	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.200	0.870	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.194	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.143	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 09:47	11/21/2023 13:28	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.730	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.41	5.75	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.73	5.75	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.703	2.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.207	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.802	2.30	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.228	0.230	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 09:47	11/21/2023 13:28	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*72.4 %*	*25-150*
Surrogate: M5PFHxA	*92.6 %*	*25-150*
Surrogate: M4PFHpA	*130 %*	*25-150*
Surrogate: M3PFHxS	*129 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*94.1 %*	*25-150*
Surrogate: M6PFDA	*119 %*	*25-150*
Surrogate: M7PFUdA	*120 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*93.6 %*	*25-150*
Surrogate: M2PFTeDA	*64.2 %*	*10-150*

Sample Information

Client Sample ID: **23SP7 (27.5-30ft)** **York Sample ID:** **23K0753-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.77 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*77.3 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*14.3 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*69.9 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*54.0 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*56.4 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*79.6 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*72.4 %*			*25-200*						
	Surrogate: M9PFNA	*112 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*72.7 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*53.7 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*53.5 %*			*25-150*						
	Surrogate: M3HFPO-DA	*97.5 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*43.2 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*48.7 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/17/2023 08:10	11/18/2023 05:33	KH

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 19:10	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 19:10	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 19:10	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 19:10	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 19:10	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.93	5	EPA 8081B Certifications:	11/16/2023 08:29 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/17/2023 19:10	BCJ

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	38.5	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.93	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.63	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	97.5	5	EPA 8081B	11/16/2023 08:29	11/17/2023 19:10	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.3 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0195	1	EPA 8082A	11/16/2023 08:29	11/17/2023 19:08	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*84.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5750**		mg/kg dry	4.88	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND	M-CCV 1	mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		mg/kg dry	1.46	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**43.5**		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.049	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.293	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**119000**	B	mg/kg dry	4.88	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**10.5**		mg/kg dry	0.488	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**4.70**		mg/kg dry	0.390	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**10.7**		mg/kg dry	1.95	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**7680**	M-CCV 1	mg/kg dry	24.4	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**1.75**		mg/kg dry	0.488	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP7 (27.5-30ft) **York Sample ID:** 23K0753-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**75800**		mg/kg dry	4.88	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**433**		mg/kg dry	0.488	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**8.39**		mg/kg dry	0.972	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1780**		mg/kg dry	4.88	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.492	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**134**	M-CCV 1	mg/kg dry	48.8	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.44	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**15.7**		mg/kg dry	0.972	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**25.4**		mg/kg dry	2.43	1	EPA 6010D	11/13/2023 17:59	11/17/2023 13:11	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0351	1	EPA 7473	11/17/2023 08:29	11/18/2023 13:35	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.586	1	EPA 7196A	11/16/2023 09:31	11/16/2023 16:58	JAMT
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.586	1	EPA 9014/9010C	11/16/2023 09:44	11/16/2023 16:46	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: **23SP7 (27.5-30ft)** **York Sample ID:** **23K0753-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Soil	November 9, 2023 1:05 pm	11/10/2023

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**85.4**		%	0.100	1	SM 2540G	11/15/2023 10:20	11/15/2023 14:40	VR
							Certifications: CTDOH-PH-0723			

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0753-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04			
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/14/2023 09:00	11/14/2023 13:59	SMA
								Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT			

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0753-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	ICVE, QL-02	ug/L	40	40	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0753-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0753-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/14/2023 09:00	11/14/2023 13:59 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*108 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.4 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/14/2023 09:00	11/14/2023 13:59	SMA

Sample Information

Client Sample ID: **Field Blank PFAS** **York Sample ID:** **23K0753-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.435	1.64	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05 NELAC-NY12058,NJDEP-NY037	11/20/2023 06:31	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.324	1.85	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05 NELAC-NY12058,NJDEP-NY037	11/20/2023 06:31	ESJ

Sample Information

Client Sample ID: **Field Blank PFAS** **York Sample ID:** **23K0753-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.658	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.630	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.389	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.760	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.482	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.695	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.05	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.815	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.685	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.639	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.732	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.954	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.213	3.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.815	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.843	1.77	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.22	1.79	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.982	7.04	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.90	7.11	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.306	7.41	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.463	3.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/19/2023 15:05	11/20/2023 06:31	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.98	3.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/19/2023 15:05	11/20/2023 06:31	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.232	3.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/19/2023 15:05	11/20/2023 06:31	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.343	3.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/19/2023 15:05	11/20/2023 06:31	ESJ

Sample Information

Client Sample ID: **Field Blank PFAS** **York Sample ID:** **23K0753-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.704	1.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.66	6.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.99	7.41	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.28	7.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.648	6.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
919005-14-4	ADONA	ND		ng/L	0.491	7.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.861	1.80	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.797	1.78	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/19/2023 15:05	11/20/2023 06:31	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.88	4.63	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.79	23.2	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.77	23.2	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.70	18.5	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.46	1.85	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.70	18.5	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.67	1.85	1	EPA 1633 Draft 3 Certifications:	11/19/2023 15:05	11/20/2023 06:31	ESJ

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*88.8 %*	*25-150*
Surrogate: M5PFHxA	*107 %*	*25-150*
Surrogate: M4PFHpA	*165 %*	*25-150*
Surrogate: M3PFHxS	*153 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*128 %*	*25-150*
Surrogate: M6PFDA	*143 %*	*25-150*
Surrogate: M7PFUdA	*132 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*123 %*	*25-150*
Surrogate: M2PFTeDA	*57.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.625 %*	*25-150*

Sample Information

Client Sample ID: **Field Blank PFAS** **York Sample ID:** **23K0753-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0753	220293 100 East 149th Street Bronx, NY	Water	November 9, 2023 3:00 pm	11/10/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*126 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.93 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*103 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*75.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*79.5 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*91.7 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*84.4 %*			*25-200*						
	Surrogate: M9PFNA	*144 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*87.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*84.9 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*56.1 %*			*25-150*						
	Surrogate: M3HFPO-DA	*113 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*32.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*46.2 %*			*25-150*						

Analytical Batch Summary

Batch ID: BK30825 **Preparation Method:** EPA 3050B **Prepared By:** JEF

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/13/23
23K0753-02	23SP7 (12-14ft)	11/13/23
23K0753-03	23SP7 (14-18ft)	11/13/23
23K0753-04	23SP7 (27.5-30ft)	11/13/23
BK30825-BLK1	Blank	11/13/23
BK30825-DUP1	Duplicate	11/13/23
BK30825-MS1	Matrix Spike	11/13/23
BK30825-PS1	Post Spike	11/13/23
BK30825-SRM1	Reference	11/13/23

Batch ID: BK30900 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-05	Trip Blank	11/14/23
BK30900-BLK1	Blank	11/14/23
BK30900-BS1	LCS	11/14/23
BK30900-BSD1	LCS Dup	11/14/23

Batch ID: BK30917 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/14/23
23K0753-02	23SP7 (12-14ft)	11/14/23
BK30917-BLK1	Blank	11/14/23
BK30917-BLK2	Blank	11/14/23
BK30917-BS1	LCS	11/14/23
BK30917-BSD1	LCS Dup	11/14/23
BK30917-MS1	Matrix Spike	11/14/23
BK30917-MSD1	Matrix Spike Dup	11/14/23

Batch ID: BK30986 **Preparation Method:** % Solids Prep **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/15/23
23K0753-02	23SP7 (12-14ft)	11/15/23
23K0753-03	23SP7 (14-18ft)	11/15/23
23K0753-04	23SP7 (27.5-30ft)	11/15/23
BK30986-DUP1	Duplicate	11/15/23

Batch ID: BK31035 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-03	23SP7 (14-18ft)	11/16/23

23K0753-04	23SP7 (27.5-30ft)	11/16/23
BK31035-BLK1	Blank	11/16/23
BK31035-BLK2	Blank	11/16/23
BK31035-BS1	LCS	11/16/23
BK31035-BSD1	LCS Dup	11/16/23

Batch ID: BK31064 **Preparation Method:** EPA 3550C **Prepared By:** me

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/16/23
23K0753-01	23SP7 (0-2.5ft)	11/16/23
23K0753-02	23SP7 (12-14ft)	11/16/23
23K0753-02	23SP7 (12-14ft)	11/16/23
23K0753-03	23SP7 (14-18ft)	11/16/23
23K0753-03	23SP7 (14-18ft)	11/16/23
23K0753-04	23SP7 (27.5-30ft)	11/16/23
23K0753-04	23SP7 (27.5-30ft)	11/16/23
BK31064-BLK1	Blank	11/16/23
BK31064-BLK2	Blank	11/16/23
BK31064-BS1	LCS	11/16/23
BK31064-BS2	LCS	11/16/23
BK31064-MS1	Matrix Spike	11/16/23
BK31064-MS2	Matrix Spike	11/16/23
BK31064-MSD1	Matrix Spike Dup	11/16/23
BK31064-MSD2	Matrix Spike Dup	11/16/23

Batch ID: BK31066 **Preparation Method:** EPA 3550C **Prepared By:** me

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/16/23
23K0753-02	23SP7 (12-14ft)	11/16/23
23K0753-03	23SP7 (14-18ft)	11/16/23
23K0753-04	23SP7 (27.5-30ft)	11/16/23
BK31066-BLK1	Blank	11/16/23
BK31066-BS1	LCS	11/16/23
BK31066-MS1	Matrix Spike	11/16/23
BK31066-MSD1	Matrix Spike Dup	11/16/23

Batch ID: BK31069 **Preparation Method:** EPA SW846-3060 **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/16/23
23K0753-02	23SP7 (12-14ft)	11/16/23
23K0753-03	23SP7 (14-18ft)	11/16/23
23K0753-04	23SP7 (27.5-30ft)	11/16/23
BK31069-BLK1	Blank	11/16/23
BK31069-DUP1	Duplicate	11/16/23
BK31069-MS1	Matrix Spike	11/16/23
BK31069-MSD1	Matrix Spike Dup	11/16/23
BK31069-SRM1	Reference	11/16/23

Batch ID: BK31070 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/16/23
23K0753-02	23SP7 (12-14ft)	11/16/23
23K0753-03	23SP7 (14-18ft)	11/16/23
23K0753-04	23SP7 (27.5-30ft)	11/16/23
BK31070-BLK1	Blank	11/16/23
BK31070-DUP1	Duplicate	11/16/23
BK31070-MS1	Matrix Spike	11/16/23
BK31070-MSD1	Matrix Spike Dup	11/16/23
BK31070-SRM1	Reference	11/16/23

Batch ID: BK31106 **Preparation Method:** EPA 3550C **Prepared By:** SCB

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/17/23
23K0753-01	23SP7 (0-2.5ft)	11/17/23
23K0753-01RE1	23SP7 (0-2.5ft)	11/17/23
23K0753-02	23SP7 (12-14ft)	11/17/23
23K0753-02	23SP7 (12-14ft)	11/17/23
23K0753-03	23SP7 (14-18ft)	11/17/23
23K0753-03	23SP7 (14-18ft)	11/17/23
23K0753-04	23SP7 (27.5-30ft)	11/17/23
23K0753-04	23SP7 (27.5-30ft)	11/17/23
BK31106-BLK1	Blank	11/17/23
BK31106-BLK1	Blank	11/17/23
BK31106-BS1	LCS	11/17/23
BK31106-MS1	Matrix Spike	11/17/23
BK31106-MSD1	Matrix Spike Dup	11/17/23

Batch ID: BK31127 **Preparation Method:** EPA 5035A **Prepared By:** FTR

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-02RE1	23SP7 (12-14ft)	11/17/23
23K0753-03RE1	23SP7 (14-18ft)	11/17/23
BK31127-BLK1	Blank	11/17/23
BK31127-BLK2	Blank	11/17/23
BK31127-BS1	LCS	11/17/23
BK31127-BSD1	LCS Dup	11/17/23

Batch ID: BK31137 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/17/23
23K0753-02	23SP7 (12-14ft)	11/17/23
23K0753-03	23SP7 (14-18ft)	11/17/23
23K0753-04	23SP7 (27.5-30ft)	11/17/23

BK31137-BLK1	Blank	11/17/23
BK31137-DUP1	Duplicate	11/17/23
BK31137-MS1	Matrix Spike	11/17/23
BK31137-SRM1	Reference	11/17/23

Batch ID: BK31244 **Preparation Method:** EPA 1633 Prep **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-06	Field Blank PFAS	11/19/23
BK31244-BLK1	Blank	11/19/23
BK31244-BS1	LCS	11/19/23
BK31244-BS2	LCS	11/19/23
BK31244-DUP1	Duplicate	11/19/23

Batch ID: BK31249 **Preparation Method:** EPA 1633 Prep **Prepared By:** J D

YORK Sample ID	Client Sample ID	Preparation Date
23K0753-01	23SP7 (0-2.5ft)	11/20/23
23K0753-02	23SP7 (12-14ft)	11/20/23
23K0753-03	23SP7 (14-18ft)	11/20/23
23K0753-04	23SP7 (27.5-30ft)	11/20/23
BK31249-BLK1	Blank	11/20/23
BK31249-BS1	LCS	11/20/23
BK31249-BS2	LCS	11/20/23
BK31249-MS1	Matrix Spike	11/20/23
BK31249-MSD1	Matrix Spike Dup	11/20/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30900 - EPA 5030B											
Blank (BK30900-BLK1)											Prepared & Analyzed: 11/14/2023
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30900 - EPA 5030B											
Blank (BK30900-BLK1)								Prepared & Analyzed: 11/14/2023			
Methylcyclohexane	ND	0.50	ug/L								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.68*		*"*	*10.0*		*96.8*	*79-122*				
LCS (BK30900-BS1)								Prepared & Analyzed: 11/14/2023			
1,1,1,2-Tetrachloroethane	9.6		ug/L	10.0		96.5	82-126				
1,1,1-Trichloroethane	9.2		"	10.0		91.6	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		112	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.8		"	10.0		98.2	54-165				
1,1,2-Trichloroethane	9.9		"	10.0		99.4	82-123				
1,1-Dichloroethane	9.0		"	10.0		89.6	82-129				
1,1-Dichloroethylene	9.8		"	10.0		97.8	68-138				
1,2,3-Trichlorobenzene	12		"	10.0		116	40-130				
1,2,3-Trichloropropane	9.8		"	10.0		98.3	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		110	65-137				
1,2,4-Trimethylbenzene	10		"	10.0		102	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		100	45-147				
1,2-Dibromoethane	10		"	10.0		102	83-124				
1,2-Dichlorobenzene	10		"	10.0		99.7	79-123				
1,2-Dichloroethane	9.9		"	10.0		99.0	73-132				
1,2-Dichloropropane	9.7		"	10.0		96.7	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		100	80-131				
1,3-Dichlorobenzene	10		"	10.0		99.7	86-130				
1,4-Dichlorobenzene	9.7		"	10.0		97.4	85-130				
1,4-Dioxane	3.9		"	210		1.85	10-349	Low Bias			
2-Butanone	8.4		"	10.0		83.6	49-152				
2-Hexanone	9.5		"	10.0		94.6	51-146				
4-Methyl-2-pentanone	10		"	10.0		102	57-145				
Acetone	6.1		"	10.0		61.1	14-150				
Acrolein	11		"	10.0		105	10-153				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30900 - EPA 5030B											
LCS (BK30900-BS1)								Prepared & Analyzed: 11/14/2023			
Acrylonitrile	9.7		ug/L	10.0		96.6	51-150				
Benzene	9.5		"	10.0		94.8	85-126				
Bromochloromethane	9.6		"	10.0		95.6	77-128				
Bromodichloromethane	9.7		"	10.0		96.6	79-128				
Bromoform	10		"	10.0		103	78-133				
Bromomethane	9.8		"	10.0		98.5	43-168				
Carbon disulfide	9.9		"	10.0		99.0	68-146				
Carbon tetrachloride	9.2		"	10.0		92.4	77-141				
Chlorobenzene	9.7		"	10.0		96.9	88-120				
Chloroethane	9.5		"	10.0		94.8	65-136				
Chloroform	9.0		"	10.0		90.5	82-128				
Chloromethane	11		"	10.0		108	43-155				
cis-1,2-Dichloroethylene	9.3		"	10.0		93.1	83-129				
cis-1,3-Dichloropropylene	9.4		"	10.0		94.2	80-131				
Cyclohexane	9.3		"	10.0		92.9	63-149				
Dibromochloromethane	10		"	10.0		102	80-130				
Dibromomethane	9.6		"	10.0		96.3	72-134				
Dichlorodifluoromethane	10		"	10.0		101	44-144				
Ethyl Benzene	9.8		"	10.0		98.2	80-131				
Hexachlorobutadiene	11		"	10.0		110	67-146				
Isopropylbenzene	9.7		"	10.0		96.8	76-140				
Methyl acetate	9.5		"	10.0		95.4	51-139				
Methyl tert-butyl ether (MTBE)	9.8		"	10.0		98.3	76-135				
Methylcyclohexane	9.8		"	10.0		97.6	72-143				
Methylene chloride	9.2		"	10.0		92.0	55-137				
n-Butylbenzene	11		"	10.0		106	79-132				
n-Propylbenzene	9.8		"	10.0		98.4	78-133				
o-Xylene	9.6		"	10.0		96.2	78-130				
p- & m- Xylenes	20		"	20.0		98.6	77-133				
p-Isopropyltoluene	10		"	10.0		103	81-136				
sec-Butylbenzene	10		"	10.0		101	79-137				
Styrene	10		"	10.0		99.7	67-132				
tert-Butyl alcohol (TBA)	60		"	50.0		120	25-162				
tert-Butylbenzene	9.7		"	10.0		97.1	77-138				
Tetrachloroethylene	5.4		"	10.0		54.1	82-131	Low Bias			
Toluene	9.8		"	10.0		97.7	80-127				
trans-1,2-Dichloroethylene	9.2		"	10.0		92.2	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		99.8	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		104	63-141				
Trichloroethylene	9.1		"	10.0		91.4	82-128				
Trichlorofluoromethane	9.8		"	10.0		98.2	67-139				
Vinyl Chloride	10		"	10.0		105	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.81*		*"*	*10.0*		*98.1*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30900 - EPA 5030B											
LCS Dup (BK30900-BSD1)							Prepared & Analyzed: 11/14/2023				
1,1,1,2-Tetrachloroethane	9.8		ug/L	10.0		98.1	82-126		1.64	30	
1,1,1-Trichloroethane	9.1		"	10.0		90.9	78-136		0.767	30	
1,1,2,2-Tetrachloroethane	12		"	10.0		117	76-129		3.93	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.7		"	10.0		97.0	54-165		1.23	30	
1,1,2-Trichloroethane	10		"	10.0		104	82-123		4.23	30	
1,1-Dichloroethane	8.9		"	10.0		89.4	82-129		0.223	30	
1,1-Dichloroethylene	9.5		"	10.0		95.3	68-138		2.59	30	
1,2,3-Trichlorobenzene	12		"	10.0		121	40-130		4.05	30	
1,2,3-Trichloropropane	10		"	10.0		102	77-128		4.09	30	
1,2,4-Trichlorobenzene	11		"	10.0		114	65-137		4.11	30	
1,2,4-Trimethylbenzene	10		"	10.0		100	82-132		1.49	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		114	45-147		12.8	30	
1,2-Dibromoethane	11		"	10.0		106	83-124		4.33	30	
1,2-Dichlorobenzene	10		"	10.0		101	79-123		1.69	30	
1,2-Dichloroethane	10		"	10.0		101	73-132		2.30	30	
1,2-Dichloropropane	9.8		"	10.0		97.6	78-126		0.926	30	
1,3,5-Trimethylbenzene	9.9		"	10.0		99.3	80-131		0.802	30	
1,3-Dichlorobenzene	9.8		"	10.0		98.5	86-130		1.21	30	
1,4-Dichlorobenzene	9.8		"	10.0		98.4	85-130		1.02	30	
1,4-Dioxane	110		"	210		50.5	10-349		186	30	Non-dir.
2-Butanone	9.0		"	10.0		89.8	49-152		7.15	30	
2-Hexanone	10		"	10.0		104	51-146		8.99	30	
4-Methyl-2-pentanone	11		"	10.0		106	57-145		4.61	30	
Acetone	6.6		"	10.0		65.6	14-150		7.10	30	
Acrolein	13		"	10.0		130	10-153		20.6	30	
Acrylonitrile	10		"	10.0		102	51-150		5.54	30	
Benzene	9.5		"	10.0		95.3	85-126		0.526	30	
Bromochloromethane	9.6		"	10.0		95.6	77-128		0.00	30	
Bromodichloromethane	9.9		"	10.0		99.1	79-128		2.55	30	
Bromoform	11		"	10.0		106	78-133		2.30	30	
Bromomethane	11		"	10.0		107	43-168		7.90	30	
Carbon disulfide	9.7		"	10.0		97.2	68-146		1.83	30	
Carbon tetrachloride	9.2		"	10.0		92.0	77-141		0.434	30	
Chlorobenzene	9.7		"	10.0		97.2	88-120		0.309	30	
Chloroethane	9.4		"	10.0		93.5	65-136		1.38	30	
Chloroform	9.1		"	10.0		91.3	82-128		0.880	30	
Chloromethane	11		"	10.0		107	43-155		0.186	30	
cis-1,2-Dichloroethylene	9.4		"	10.0		94.5	83-129		1.49	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		97.7	80-131		3.65	30	
Cyclohexane	9.2		"	10.0		91.7	63-149		1.30	30	
Dibromochloromethane	10		"	10.0		104	80-130		2.23	30	
Dibromomethane	10		"	10.0		101	72-134		5.16	30	
Dichlorodifluoromethane	10		"	10.0		105	44-144		3.79	30	
Ethyl Benzene	9.7		"	10.0		97.1	80-131		1.13	30	
Hexachlorobutadiene	10		"	10.0		103	67-146		6.69	30	
Isopropylbenzene	9.4		"	10.0		94.2	76-140		2.72	30	
Methyl acetate	9.9		"	10.0		99.4	51-139		4.11	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		102	76-135		3.50	30	
Methylcyclohexane	9.5		"	10.0		95.4	72-143		2.28	30	
Methylene chloride	9.4		"	10.0		93.7	55-137		1.83	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30900 - EPA 5030B											
LCS Dup (BK30900-BSD1)								Prepared & Analyzed: 11/14/2023			
n-Butylbenzene	10		ug/L	10.0		103	79-132		2.68	30	
n-Propylbenzene	9.6		"	10.0		95.8	78-133		2.68	30	
o-Xylene	9.6		"	10.0		96.0	78-130		0.208	30	
p- & m- Xylenes	20		"	20.0		98.1	77-133		0.508	30	
p-Isopropyltoluene	10		"	10.0		101	81-136		1.96	30	
sec-Butylbenzene	9.8		"	10.0		98.2	79-137		2.41	30	
Styrene	9.9		"	10.0		99.4	67-132		0.301	30	
tert-Butyl alcohol (TBA)	66		"	50.0		131	25-162		9.10	30	
tert-Butylbenzene	9.5		"	10.0		95.2	77-138		1.98	30	
Tetrachloroethylene	5.4		"	10.0		53.5	82-131	Low Bias	1.12	30	
Toluene	9.7		"	10.0		96.6	80-127		1.13	30	
trans-1,2-Dichloroethylene	9.2		"	10.0		92.1	80-132		0.109	30	
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131		2.67	30	
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141		4.16	30	
Trichloroethylene	8.9		"	10.0		88.9	82-128		2.77	30	
Trichlorofluoromethane	9.7		"	10.0		97.0	67-139		1.23	30	
Vinyl Chloride	10		"	10.0		103	58-145		1.73	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.98*		*"*	*10.0*		*99.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.84*		*"*	*10.0*		*98.4*	*79-122*				
Batch BK30917 - EPA 5035A											
Blank (BK30917-BLK1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Blank (BK30917-BLK1)											
Prepared: 11/14/2023 Analyzed: 11/15/2023											
Benzene	ND	0.0050	mg/kg wet								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.9*		*ug/L*	*50.0*		*99.9*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.1*		*"*	*50.0*		*100*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.0*		*"*	*50.0*		*81.9*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Blank (BK30917-BLK2)											
Prepared: 11/14/2023 Analyzed: 11/15/2023											
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Blank (BK30917-BLK2)									Prepared: 11/14/2023 Analyzed: 11/15/2023		
Methylene chloride	ND	1.0	mg/kg wet								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*50.2*		*ug/L*	*50.0*		*100*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.9*		*"*	*50.0*		*99.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.1*		*"*	*50.0*		*82.3*	*76-130*				
LCS (BK30917-BS1)									Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.3	75-129				
1,1,1-Trichloroethane	43		"	50.0		87.0	71-137				
1,1,2,2-Tetrachloroethane	41		"	50.0		81.6	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	41		"	50.0		81.3	58-146				
1,1,2-Trichloroethane	44		"	50.0		88.5	83-123				
1,1-Dichloroethane	42		"	50.0		83.9	75-130				
1,1-Dichloroethylene	42		"	50.0		84.7	64-137				
1,2,3-Trichlorobenzene	46		"	50.0		92.1	81-140				
1,2,3-Trichloropropane	41		"	50.0		82.3	81-126				
1,2,4-Trichlorobenzene	44		"	50.0		88.6	80-141				
1,2,4-Trimethylbenzene	43		"	50.0		85.6	84-125				
1,2-Dibromo-3-chloropropane	31		"	50.0		62.5	74-142	Low Bias			
1,2-Dibromoethane	46		"	50.0		92.7	86-123				
1,2-Dichlorobenzene	48		"	50.0		95.8	85-122				
1,2-Dichloroethane	42		"	50.0		84.4	71-133				
1,2-Dichloropropane	43		"	50.0		85.5	81-122				
1,3,5-Trimethylbenzene	42		"	50.0		84.3	82-126				
1,3-Dichlorobenzene	47		"	50.0		94.8	84-124				
1,4-Dichlorobenzene	47		"	50.0		93.9	84-124				
1,4-Dioxane	410		"	1050		39.2	10-228				
2-Butanone	37		"	50.0		73.1	58-147				
2-Hexanone	31		"	50.0		61.1	70-139	Low Bias			
4-Methyl-2-pentanone	37		"	50.0		74.0	72-132				
Acetone	30		"	50.0		60.6	36-155				
Acrolein	39		"	50.0		77.8	10-238				
Acrylonitrile	41		"	50.0		82.7	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
LCS (BK30917-BS1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
Benzene	45		ug/L	50.0		90.2	77-127				
Bromochloromethane	41		"	50.0		81.4	74-129				
Bromodichloromethane	38		"	50.0		75.2	81-124	Low Bias			
Bromoform	40		"	50.0		80.7	80-136				
Bromomethane	49		"	50.0		98.9	32-177				
Carbon disulfide	46		"	50.0		92.0	10-136				
Carbon tetrachloride	46		"	50.0		92.1	66-143				
Chlorobenzene	49		"	50.0		98.0	86-120				
Chloroethane	47		"	50.0		93.2	51-142				
Chloroform	44		"	50.0		87.7	76-131				
Chloromethane	45		"	50.0		90.9	49-132				
cis-1,2-Dichloroethylene	41		"	50.0		82.8	74-132				
cis-1,3-Dichloropropylene	41		"	50.0		82.9	81-129				
Cyclohexane	42		"	50.0		83.1	70-130				
Dibromochloromethane	39		"	50.0		78.6	10-200				
Dibromomethane	43		"	50.0		86.6	83-124				
Dichlorodifluoromethane	56		"	50.0		112	28-158				
Ethyl Benzene	45		"	50.0		89.5	84-125				
Hexachlorobutadiene	46		"	50.0		91.4	83-133				
Isopropylbenzene	42		"	50.0		85.0	81-127				
Methyl acetate	36		"	50.0		72.3	41-143				
Methyl tert-butyl ether (MTBE)	40		"	50.0		80.3	74-131				
Methylcyclohexane	43		"	50.0		85.5	70-130				
Methylene chloride	40		"	50.0		79.5	57-141				
n-Butylbenzene	41		"	50.0		81.1	80-130				
n-Propylbenzene	41		"	50.0		82.0	74-136				
o-Xylene	45		"	50.0		89.8	83-123				
p- & m- Xylenes	91		"	100		90.7	82-128				
p-Isopropyltoluene	44		"	50.0		87.8	85-125				
sec-Butylbenzene	43		"	50.0		86.8	83-125				
Styrene	47		"	50.0		94.9	86-126				
tert-Butyl alcohol (TBA)	170		"	250		68.8	70-130	Low Bias			
tert-Butylbenzene	44		"	50.0		87.6	80-127				
Tetrachloroethylene	42		"	50.0		84.1	80-129				
Toluene	45		"	50.0		89.8	85-121				
trans-1,2-Dichloroethylene	43		"	50.0		85.1	72-132				
trans-1,3-Dichloropropylene	36		"	50.0		71.1	78-132	Low Bias			
trans-1,4-dichloro-2-butene	35		"	50.0		69.2	75-135	Low Bias			
Trichloroethylene	44		"	50.0		88.0	84-123				
Trichlorofluoromethane	49		"	50.0		98.0	62-140				
Vinyl Chloride	48		"	50.0		95.8	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.2*		*"*	*50.0*		*96.4*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.3*		*"*	*50.0*		*101*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.2*		*"*	*50.0*		*82.3*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
LCS Dup (BK30917-BSD1)								Prepared: 11/14/2023 Analyzed: 11/15/2023			
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		102	75-129		5.63	30	
1,1,1-Trichloroethane	45		"	50.0		90.7	71-137		4.21	30	
1,1,2,2-Tetrachloroethane	43		"	50.0		86.7	79-129		6.01	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	40		"	50.0		79.3	58-146		2.44	30	
1,1,2-Trichloroethane	47		"	50.0		94.6	83-123		6.67	30	
1,1-Dichloroethane	44		"	50.0		88.2	75-130		5.04	30	
1,1-Dichloroethylene	42		"	50.0		83.4	64-137		1.62	30	
1,2,3-Trichlorobenzene	48		"	50.0		96.6	81-140		4.75	30	
1,2,3-Trichloropropane	44		"	50.0		87.4	81-126		5.96	30	
1,2,4-Trichlorobenzene	46		"	50.0		92.3	80-141		4.09	30	
1,2,4-Trimethylbenzene	44		"	50.0		88.2	84-125		3.04	30	
1,2-Dibromo-3-chloropropane	33		"	50.0		66.9	74-142	Low Bias	6.77	30	
1,2-Dibromoethane	49		"	50.0		98.7	86-123		6.33	30	
1,2-Dichlorobenzene	50		"	50.0		100	85-122		4.75	30	
1,2-Dichloroethane	45		"	50.0		90.2	71-133		6.64	30	
1,2-Dichloropropane	45		"	50.0		89.6	81-122		4.61	30	
1,3,5-Trimethylbenzene	43		"	50.0		86.8	82-126		2.90	30	
1,3-Dichlorobenzene	49		"	50.0		98.9	84-124		4.25	30	
1,4-Dichlorobenzene	49		"	50.0		98.1	84-124		4.31	30	
1,4-Dioxane	440		"	1050		41.6	10-228		5.96	30	
2-Butanone	39		"	50.0		78.7	58-147		7.43	30	
2-Hexanone	33		"	50.0		65.9	70-139	Low Bias	7.56	30	
4-Methyl-2-pentanone	40		"	50.0		80.0	72-132		7.79	30	
Acetone	33		"	50.0		65.0	36-155		7.07	30	
Acrolein	39		"	50.0		77.2	10-238		0.851	30	
Acrylonitrile	45		"	50.0		89.6	66-141		7.96	30	
Benzene	47		"	50.0		94.6	77-127		4.74	30	
Bromochloromethane	43		"	50.0		86.2	74-129		5.68	30	
Bromodichloromethane	40		"	50.0		79.7	81-124	Low Bias	5.81	30	
Bromoform	43		"	50.0		87.0	80-136		7.52	30	
Bromomethane	51		"	50.0		103	32-177		3.89	30	
Carbon disulfide	49		"	50.0		97.3	10-136		5.58	30	
Carbon tetrachloride	48		"	50.0		96.4	66-143		4.58	30	
Chlorobenzene	51		"	50.0		103	86-120		4.55	30	
Chloroethane	48		"	50.0		96.4	51-142		3.38	30	
Chloroform	46		"	50.0		92.5	76-131		5.28	30	
Chloromethane	47		"	50.0		93.5	49-132		2.80	30	
cis-1,2-Dichloroethylene	44		"	50.0		87.2	74-132		5.20	30	
cis-1,3-Dichloropropylene	44		"	50.0		88.5	81-129		6.51	30	
Cyclohexane	43		"	50.0		86.6	70-130		4.08	30	
Dibromochloromethane	42		"	50.0		84.8	10-200		7.59	30	
Dibromomethane	46		"	50.0		92.3	83-124		6.35	30	
Dichlorodifluoromethane	57		"	50.0		114	28-158		2.34	30	
Ethyl Benzene	46		"	50.0		92.7	84-125		3.49	30	
Hexachlorobutadiene	47		"	50.0		93.7	83-133		2.46	30	
Isopropylbenzene	44		"	50.0		87.1	81-127		2.44	30	
Methyl acetate	38		"	50.0		77.0	41-143		6.21	30	
Methyl tert-butyl ether (MTBE)	43		"	50.0		86.7	74-131		7.67	30	
Methylcyclohexane	44		"	50.0		88.1	70-130		3.04	30	
Methylene chloride	42		"	50.0		83.9	57-141		5.36	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
LCS Dup (BK30917-BSD1)									Prepared: 11/14/2023 Analyzed: 11/15/2023		
n-Butylbenzene	41		ug/L	50.0		82.7	80-130		1.88	30	
n-Propylbenzene	42		"	50.0		84.3	74-136		2.79	30	
o-Xylene	47		"	50.0		94.4	83-123		4.99	30	
p- & m- Xylenes	94		"	100		93.6	82-128		3.21	30	
p-Isopropyltoluene	45		"	50.0		90.5	85-125		2.96	30	
sec-Butylbenzene	45		"	50.0		89.1	83-125		2.71	30	
Styrene	50		"	50.0		99.5	86-126		4.75	30	
tert-Butyl alcohol (TBA)	190		"	250		75.5	70-130		9.27	30	
tert-Butylbenzene	45		"	50.0		90.2	80-127		2.88	30	
Tetrachloroethylene	44		"	50.0		87.0	80-129		3.41	30	
Toluene	47		"	50.0		93.3	85-121		3.82	30	
trans-1,2-Dichloroethylene	44		"	50.0		88.9	72-132		4.28	30	
trans-1,3-Dichloropropylene	38		"	50.0		75.8	78-132	Low Bias	6.37	30	
trans-1,4-dichloro-2-butene	37		"	50.0		73.6	75-135	Low Bias	6.22	30	
Trichloroethylene	46		"	50.0		92.2	84-123		4.69	30	
Trichlorofluoromethane	50		"	50.0		101	62-140		2.88	30	
Vinyl Chloride	49		"	50.0		98.3	52-130		2.62	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.0*		*"*	*50.0*		*98.0*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.0*		*"*	*50.0*		*100*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*40.9*		*"*	*50.0*		*81.8*	*76-130*				
Matrix Spike (BK30917-MS1)	*Source sample: 23K0749-01 (Matrix Spike)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,1,1,2-Tetrachloroethane	41		ug/L	50.0	0.0	82.0	15-161				
1,1,1-Trichloroethane	39		"	50.0	0.0	77.7	42-145				
1,1,2,2-Tetrachloroethane	34		"	50.0	0.0	68.7	16-167				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	37		"	50.0	0.0	73.7	11-160				
1,1,2-Trichloroethane	39		"	50.0	0.0	78.7	44-145				
1,1-Dichloroethane	37		"	50.0	0.0	74.6	46-142				
1,1-Dichloroethylene	34		"	50.0	0.0	68.6	30-153				
1,1-Dichloropropylene	34		"	50.0	0.0	68.2	40-133				
1,2,3-Trichlorobenzene	21		"	50.0	0.0	41.8	10-157				
1,2,3-Trichloropropane	35		"	50.0	0.0	70.7	38-155				
1,2,4,5-Tetramethylbenzene	27		"	50.0	0.0	54.8	10-138				
1,2,4-Trichlorobenzene	20		"	50.0	0.0	40.9	10-151				
1,2,4-Trimethylbenzene	32		"	50.0	0.0	63.7	10-170				
1,2-Dibromo-3-chloropropane	23		"	50.0	0.0	45.4	36-138				
1,2-Dibromoethane	40		"	50.0	0.0	79.6	40-142				
1,2-Dichlorobenzene	32		"	50.0	0.0	63.7	10-147				
1,2-Dichloroethane	37		"	50.0	0.0	74.4	48-133				
1,2-Dichloropropane	38		"	50.0	0.0	75.8	47-141				
1,3,5-Trimethylbenzene	32		"	50.0	0.0	64.0	10-150				
1,3-Dichlorobenzene	31		"	50.0	0.0	61.1	10-144				
1,3-Dichloropropane	38		"	50.0	0.0	75.4	43-142				
1,4-Dichlorobenzene	30		"	50.0	0.0	59.6	10-160				
1,4-Dioxane	350		"	1050	0.0	32.9	10-191				
2,2-Dichloropropane	33		"	50.0	0.0	66.5	38-130				
2-Butanone	30		"	50.0	0.0	59.5	10-189				
2-Chlorotoluene	30		"	50.0	0.0	60.2	14-144				
2-Hexanone	25		"	50.0	0.0	49.2	10-181				
4-Chlorotoluene	29		"	50.0	0.0	58.6	15-138				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Matrix Spike (BK30917-MS1)	*Source sample: 23K0749-01 (Matrix Spike)							Prepared: 11/14/2023 Analyzed: 11/15/2023			
4-Methyl-2-pentanone	32		ug/L	50.0	0.0	64.9	10-166				
Acetone	25		"	50.0	3.0	43.7	10-196				
Acrolein	6.1		"	50.0	0.0	12.2	10-192				
Acrylonitrile	32		"	50.0	0.0	64.9	13-161				
Benzene	39		"	50.0	0.0	77.1	43-139				
Bromobenzene	28		"	50.0	0.0	56.1	23-142				
Bromochloromethane	34		"	50.0	0.0	68.0	38-145				
Bromodichloromethane	32		"	50.0	0.0	64.8	38-147				
Bromoform	31		"	50.0	0.0	61.7	29-156				
Bromomethane	36		"	50.0	0.0	71.9	10-166				
Carbon disulfide	31		"	50.0	0.0	62.5	10-131				
Carbon tetrachloride	38		"	50.0	0.0	75.9	35-145				
Chlorobenzene	37		"	50.0	0.0	74.5	21-154				
Chloroethane	35		"	50.0	0.0	69.4	15-160				
Chloroform	40		"	50.0	0.0	80.0	47-142				
Chloromethane	26		"	50.0	0.0	51.4	10-159				
cis-1,2-Dichloroethylene	35		"	50.0	0.0	69.8	42-144				
cis-1,3-Dichloropropylene	34		"	50.0	0.0	68.9	18-159				
Cyclohexane	32		"	50.0	0.0	64.6	70-130	Low Bias			
Dibromochloromethane	33		"	50.0	0.0	65.7	10-179				
Dibromomethane	36		"	50.0	0.0	72.8	47-143				
Dichlorodifluoromethane	18		"	50.0	0.0	35.6	10-145				
Ethyl Benzene	36		"	50.0	0.0	71.8	11-158				
Hexachlorobutadiene	17		"	50.0	0.0	34.7	10-158				
Isopropylbenzene	34		"	50.0	0.0	67.5	10-162				
Methyl acetate	35		"	50.0	0.0	69.3	10-149				
Methyl tert-butyl ether (MTBE)	39		"	50.0	0.0	78.0	42-152				
Methylcyclohexane	30		"	50.0	0.0	59.0	70-130	Low Bias			
Methylene chloride	34		"	50.0	1.4	65.3	28-151				
Naphthalene	21		"	50.0	0.0	42.5	10-158				
n-Butylbenzene	24		"	50.0	0.0	47.5	10-162				
n-Propylbenzene	30		"	50.0	0.0	60.0	10-155				
o-Xylene	37		"	50.0	0.0	73.8	10-158				
p- & m- Xylenes	71		"	100	0.0	70.5	10-156				
p-Diethylbenzene	27		"	50.0	0.0	53.6	10-146				
p-Ethyltoluene	32		"	50.0	0.0	64.2	10-135				
p-Isopropyltoluene	30		"	50.0	0.0	59.7	10-147				
sec-Butylbenzene	30		"	50.0	0.0	59.0	10-157				
Styrene	35		"	50.0	0.0	69.1	13-171				
tert-Butyl alcohol (TBA)	150		"	250	0.0	61.7	34-179				
tert-Butylbenzene	33		"	50.0	0.0	66.4	10-160				
Tetrachloroethylene	34		"	50.0	0.0	68.3	30-167				
Toluene	37		"	50.0	0.0	74.1	21-160				
trans-1,2-Dichloroethylene	33		"	50.0	0.0	66.8	29-153				
trans-1,3-Dichloropropylene	28		"	50.0	0.0	55.2	18-155				
trans-1,4-dichloro-2-butene	28		"	50.0	0.0	56.8	17-154				
Trichloroethylene	36		"	50.0	0.0	71.8	24-169				
Trichlorofluoromethane	36		"	50.0	0.0	71.2	35-142				
Vinyl acetate	13		"	50.0	0.0	26.3	10-119				
Vinyl Chloride	29		"	50.0	0.0	58.7	12-160				
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.9*		*"*	*50.0*		*95.8*	*77-125*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Matrix Spike (BK30917-MS1)	*Source sample: 23K0749-01 (Matrix Spike)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
Surrogate: SURR: Toluene-d8	*49.7*		*ug/L*	*50.0*		*99.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.3*		*"*	*50.0*		*82.5*	*76-130*				
Matrix Spike Dup (BK30917-MSD1)	*Source sample: 23K0749-01 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
1,1,1,2-Tetrachloroethane	38		ug/L	50.0	0.0	75.8	15-161		7.86	33	
1,1,1-Trichloroethane	36		"	50.0	0.0	72.6	42-145		6.89	30	
1,1,2,2-Tetrachloroethane	31		"	50.0	0.0	61.4	16-167		11.1	56	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	34		"	50.0	0.0	68.5	11-160		7.28	31	
1,1,2-Trichloroethane	35		"	50.0	0.0	70.3	44-145		11.2	40	
1,1-Dichloroethane	35		"	50.0	0.0	69.8	46-142		6.64	36	
1,1-Dichloroethylene	32		"	50.0	0.0	64.2	30-153		6.57	31	
1,2,3-Trichlorobenzene	20		"	50.0	0.0	40.9	10-157		2.27	47	
1,2,3-Trichloropropane	31		"	50.0	0.0	61.7	38-155		13.5	48	
1,2,4-Trichlorobenzene	20		"	50.0	0.0	39.7	10-151		3.03	52	
1,2,4-Trimethylbenzene	29		"	50.0	0.0	58.4	10-170		8.68	242	
1,2-Dibromo-3-chloropropane	20		"	50.0	0.0	39.6	36-138		13.7	54	
1,2-Dibromoethane	35		"	50.0	0.0	69.5	40-142		13.4	39	
1,2-Dichlorobenzene	29		"	50.0	0.0	58.6	10-147		8.24	52	
1,2-Dichloroethane	34		"	50.0	0.0	68.4	48-133		8.38	32	
1,2-Dichloropropane	35		"	50.0	0.0	70.5	47-141		7.19	37	
1,3,5-Trimethylbenzene	30		"	50.0	0.0	59.1	10-150		8.06	62	
1,3-Dichlorobenzene	29		"	50.0	0.0	57.0	10-144		6.97	51	
1,4-Dichlorobenzene	28		"	50.0	0.0	55.1	10-160		7.92	52	
1,4-Dioxane	310		"	1050	0.0	29.8	10-191		9.76	196	
2-Butanone	26		"	50.0	0.0	52.4	10-189		12.8	67	
2-Hexanone	21		"	50.0	0.0	42.4	10-181		14.8	60	
4-Methyl-2-pentanone	29		"	50.0	0.0	57.1	10-166		12.7	47	
Acetone	23		"	50.0	3.0	39.8	10-196		9.30	150	
Acrolein	3.7		"	50.0	0.0	7.42	10-192	Low Bias	48.9	128	
Acrylonitrile	28		"	50.0	0.0	56.2	13-161		14.3	48	
Benzene	35		"	50.0	0.0	69.6	43-139		10.3	64	
Bromochloromethane	31		"	50.0	0.0	62.6	38-145		8.24	30	
Bromodichloromethane	30		"	50.0	0.0	59.3	38-147		8.89	37	
Bromoform	27		"	50.0	0.0	54.9	29-156		11.6	51	
Bromomethane	31		"	50.0	0.0	62.8	10-166		13.5	42	
Carbon disulfide	29		"	50.0	0.0	57.6	10-131		8.06	36	
Carbon tetrachloride	36		"	50.0	0.0	71.3	35-145		6.17	31	
Chlorobenzene	34		"	50.0	0.0	67.9	21-154		9.25	32	
Chloroethane	32		"	50.0	0.0	64.9	15-160		6.76	40	
Chloroform	38		"	50.0	0.0	75.1	47-142		6.35	29	
Chloromethane	25		"	50.0	0.0	50.2	10-159		2.36	31	
cis-1,2-Dichloroethylene	32		"	50.0	0.0	64.1	42-144		8.52	30	
cis-1,3-Dichloropropylene	31		"	50.0	0.0	62.1	18-159		10.4	39	
Cyclohexane	30		"	50.0	0.0	60.1	70-130	Low Bias	7.12	30	
Dibromochloromethane	29		"	50.0	0.0	58.7	10-179		11.2	41	
Dibromomethane	32		"	50.0	0.0	64.9	47-143		11.5	41	
Dichlorodifluoromethane	16		"	50.0	0.0	31.9	10-145		10.9	34	
Ethyl Benzene	33		"	50.0	0.0	65.5	11-158		9.27	42	
Hexachlorobutadiene	18		"	50.0	0.0	35.6	10-158		2.50	45	
Isopropylbenzene	31		"	50.0	0.0	61.9	10-162		8.60	57	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30917 - EPA 5035A											
Matrix Spike Dup (BK30917-MSD1)	*Source sample: 23K0749-01 (Matrix Spike Dup)								Prepared: 11/14/2023 Analyzed: 11/15/2023		
Methyl acetate	34		ug/L	50.0	0.0	67.3	10-149		2.96	64	
Methyl tert-butyl ether (MTBE)	36		"	50.0	0.0	72.7	42-152		6.98	47	
Methylcyclohexane	28		"	50.0	0.0	55.4	70-130	Low Bias	6.43	30	
Methylene chloride	32		"	50.0	1.4	61.2	28-151		6.48	49	
n-Butylbenzene	23		"	50.0	0.0	45.8	10-162		3.52	96	
n-Propylbenzene	28		"	50.0	0.0	55.3	10-155		8.12	56	
o-Xylene	33		"	50.0	0.0	66.9	10-158		9.84	51	
p- & m- Xylenes	65		"	100	0.0	65.1	10-156		8.07	47	
p-Isopropyltoluene	28		"	50.0	0.0	56.5	10-147		5.47	60	
sec-Butylbenzene	28		"	50.0	0.0	56.1	10-157		5.07	56	
Styrene	31		"	50.0	0.0	62.8	13-171		9.43	39	
tert-Butyl alcohol (TBA)	140		"	250	0.0	57.9	34-179		6.32	35	
tert-Butylbenzene	31		"	50.0	0.0	62.3	10-160		6.40	79	
Tetrachloroethylene	31		"	50.0	0.0	62.1	30-167		9.60	33	
Toluene	33		"	50.0	0.0	66.6	21-160		10.6	50	
trans-1,2-Dichloroethylene	31		"	50.0	0.0	61.9	29-153		7.62	30	
trans-1,3-Dichloropropylene	25		"	50.0	0.0	49.2	18-155		11.5	30	
trans-1,4-dichloro-2-butene	25		"	50.0	0.0	49.7	17-154		13.3	30	
Trichloroethylene	33		"	50.0	0.0	65.2	24-169		9.64	30	
Trichlorofluoromethane	33		"	50.0	0.0	66.4	35-142		6.92	30	
Vinyl Chloride	27		"	50.0	0.0	53.8	12-160		8.64	35	
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.1*		*"*	*50.0*		*96.3*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.4*		*"*	*50.0*		*98.8*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*41.2*		*"*	*50.0*		*82.3*	*76-130*				
Batch BK31035 - EPA 5035A											
Blank (BK31035-BLK1)									Prepared & Analyzed: 11/16/2023		
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31035 - EPA 5035A											
Blank (BK31035-BLK1)											Prepared & Analyzed: 11/16/2023
4-Methyl-2-pentanone	ND	0.0050	mg/kg wet								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*49.7*		*ug/L*	*50.0*		*99.4*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.5*		*"*	*50.0*		*98.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*39.9*		*"*	*50.0*		*79.8*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31035 - EPA 5035A											
Blank (BK31035-BLK2)											Prepared & Analyzed: 11/16/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31035 - EPA 5035A											
Blank (BK31035-BLK2)								Prepared & Analyzed: 11/16/2023			
Methylene chloride	ND	1.0	mg/kg wet								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.9*		*ug/L*	*50.0*		*97.7*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.6*		*"*	*50.0*		*99.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*40.1*		*"*	*50.0*		*80.1*	*76-130*				
LCS (BK31035-BS1)								Prepared & Analyzed: 11/16/2023			
1,1,1,2-Tetrachloroethane	49		ug/L	50.0		97.9	75-129				
1,1,1-Trichloroethane	45		"	50.0		89.1	71-137				
1,1,2,2-Tetrachloroethane	39		"	50.0		78.6	79-129	Low Bias			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		96.6	58-146				
1,1,2-Trichloroethane	44		"	50.0		88.5	83-123				
1,1-Dichloroethane	42		"	50.0		83.8	75-130				
1,1-Dichloroethylene	43		"	50.0		86.1	64-137				
1,2,3-Trichlorobenzene	46		"	50.0		91.6	81-140				
1,2,3-Trichloropropane	40		"	50.0		80.2	81-126	Low Bias			
1,2,4-Trichlorobenzene	44		"	50.0		87.7	80-141				
1,2,4-Trimethylbenzene	41		"	50.0		82.6	84-125	Low Bias			
1,2-Dibromo-3-chloropropane	32		"	50.0		64.4	74-142	Low Bias			
1,2-Dibromoethane	46		"	50.0		92.7	86-123				
1,2-Dichlorobenzene	47		"	50.0		94.3	85-122				
1,2-Dichloroethane	42		"	50.0		84.4	71-133				
1,2-Dichloropropane	41		"	50.0		82.8	81-122				
1,3,5-Trimethylbenzene	41		"	50.0		81.4	82-126	Low Bias			
1,3-Dichlorobenzene	46		"	50.0		92.9	84-124				
1,4-Dichlorobenzene	46		"	50.0		92.1	84-124				
1,4-Dioxane	390		"	1050		37.3	10-228				
2-Butanone	35		"	50.0		69.1	58-147				
2-Hexanone	28		"	50.0		56.5	70-139	Low Bias			
4-Methyl-2-pentanone	36		"	50.0		71.2	72-132	Low Bias			
Acetone	26		"	50.0		52.8	36-155				
Acrolein	36		"	50.0		72.8	10-238				
Acrylonitrile	40		"	50.0		80.0	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31035 - EPA 5035A											
LCS (BK31035-BS1)							Prepared & Analyzed: 11/16/2023				
Benzene	45		ug/L	50.0		90.9	77-127				
Bromochloromethane	40		"	50.0		79.1	74-129				
Bromodichloromethane	38		"	50.0		75.7	81-124	Low Bias			
Bromoform	45		"	50.0		89.4	80-136				
Bromomethane	46		"	50.0		91.4	32-177				
Carbon disulfide	49		"	50.0		97.7	10-136				
Carbon tetrachloride	48		"	50.0		95.4	66-143				
Chlorobenzene	49		"	50.0		97.1	86-120				
Chloroethane	42		"	50.0		84.6	51-142				
Chloroform	44		"	50.0		88.8	76-131				
Chloromethane	43		"	50.0		86.9	49-132				
cis-1,2-Dichloroethylene	41		"	50.0		81.9	74-132				
cis-1,3-Dichloropropylene	42		"	50.0		83.1	81-129				
Cyclohexane	41		"	50.0		81.5	70-130				
Dibromochloromethane	41		"	50.0		82.4	10-200				
Dibromomethane	43		"	50.0		85.6	83-124				
Dichlorodifluoromethane	53		"	50.0		107	28-158				
Ethyl Benzene	44		"	50.0		87.2	84-125				
Hexachlorobutadiene	46		"	50.0		91.1	83-133				
Isopropylbenzene	41		"	50.0		81.8	81-127				
Methyl acetate	34		"	50.0		67.5	41-143				
Methyl tert-butyl ether (MTBE)	42		"	50.0		83.7	74-131				
Methylcyclohexane	42		"	50.0		83.0	70-130				
Methylene chloride	39		"	50.0		78.7	57-141				
n-Butylbenzene	39		"	50.0		77.4	80-130	Low Bias			
n-Propylbenzene	39		"	50.0		78.6	74-136				
o-Xylene	44		"	50.0		88.3	83-123				
p- & m- Xylenes	88		"	100		87.7	82-128				
p-Isopropyltoluene	43		"	50.0		85.4	85-125				
sec-Butylbenzene	42		"	50.0		83.8	83-125				
Styrene	47		"	50.0		93.4	86-126				
tert-Butyl alcohol (TBA)	180		"	250		70.7	70-130				
tert-Butylbenzene	43		"	50.0		85.3	80-127				
Tetrachloroethylene	42		"	50.0		83.8	80-129				
Toluene	44		"	50.0		87.5	85-121				
trans-1,2-Dichloroethylene	42		"	50.0		84.2	72-132				
trans-1,3-Dichloropropylene	36		"	50.0		71.5	78-132	Low Bias			
trans-1,4-dichloro-2-butene	34		"	50.0		68.4	75-135	Low Bias			
Trichloroethylene	44		"	50.0		87.0	84-123				
Trichlorofluoromethane	47		"	50.0		93.3	62-140				
Vinyl Chloride	43		"	50.0		85.7	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.9*		*"*	*50.0*		*95.8*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.7*		*"*	*50.0*		*99.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*40.1*		*"*	*50.0*		*80.3*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31035 - EPA 5035A											
LCS Dup (BK31035-BSD1)								Prepared & Analyzed: 11/16/2023			
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		106	75-129		7.98	30	
1,1,1-Trichloroethane	48		"	50.0		96.0	71-137		7.41	30	
1,1,2,2-Tetrachloroethane	44		"	50.0		88.4	79-129		11.7	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	52		"	50.0		104	58-146		7.70	30	
1,1,2-Trichloroethane	50		"	50.0		99.1	83-123		11.2	30	
1,1-Dichloroethane	45		"	50.0		90.8	75-130		8.06	30	
1,1-Dichloroethylene	46		"	50.0		92.6	64-137		7.28	30	
1,2,3-Trichlorobenzene	50		"	50.0		99.6	81-140		8.33	30	
1,2,3-Trichloropropane	45		"	50.0		90.1	81-126		11.6	30	
1,2,4-Trichlorobenzene	47		"	50.0		94.4	80-141		7.29	30	
1,2,4-Trimethylbenzene	44		"	50.0		88.8	84-125		7.19	30	
1,2-Dibromo-3-chloropropane	37		"	50.0		73.0	74-142	Low Bias	12.5	30	
1,2-Dibromoethane	52		"	50.0		105	86-123		12.2	30	
1,2-Dichlorobenzene	51		"	50.0		102	85-122		7.79	30	
1,2-Dichloroethane	46		"	50.0		92.0	71-133		8.66	30	
1,2-Dichloropropane	45		"	50.0		90.2	81-122		8.62	30	
1,3,5-Trimethylbenzene	44		"	50.0		87.2	82-126		6.81	30	
1,3-Dichlorobenzene	50		"	50.0		100	84-124		7.66	30	
1,4-Dichlorobenzene	50		"	50.0		99.6	84-124		7.84	30	
1,4-Dioxane	460		"	1050		43.6	10-228		15.6	30	
2-Butanone	40		"	50.0		80.2	58-147		14.8	30	
2-Hexanone	33		"	50.0		65.8	70-139	Low Bias	15.3	30	
4-Methyl-2-pentanone	41		"	50.0		81.5	72-132		13.5	30	
Acetone	31		"	50.0		61.1	36-155		14.6	30	
Acrolein	41		"	50.0		82.7	10-238		12.7	30	
Acrylonitrile	46		"	50.0		92.9	66-141		15.0	30	
Benzene	49		"	50.0		98.5	77-127		7.98	30	
Bromochloromethane	44		"	50.0		87.1	74-129		9.65	30	
Bromodichloromethane	41		"	50.0		82.5	81-124		8.57	30	
Bromoform	50		"	50.0		100	80-136		11.2	30	
Bromomethane	50		"	50.0		99.9	32-177		8.80	30	
Carbon disulfide	53		"	50.0		105	10-136		7.47	30	
Carbon tetrachloride	51		"	50.0		103	66-143		7.22	30	
Chlorobenzene	53		"	50.0		105	86-120		8.03	30	
Chloroethane	46		"	50.0		91.4	51-142		7.68	30	
Chloroform	48		"	50.0		96.3	76-131		8.06	30	
Chloromethane	46		"	50.0		92.2	49-132		5.92	30	
cis-1,2-Dichloroethylene	45		"	50.0		89.3	74-132		8.72	30	
cis-1,3-Dichloropropylene	46		"	50.0		91.0	81-129		9.10	30	
Cyclohexane	44		"	50.0		87.7	70-130		7.31	30	
Dibromochloromethane	46		"	50.0		91.4	10-200		10.4	30	
Dibromomethane	48		"	50.0		95.2	83-124		10.6	30	
Dichlorodifluoromethane	56		"	50.0		111	28-158		4.13	30	
Ethyl Benzene	47		"	50.0		93.9	84-125		7.40	30	
Hexachlorobutadiene	48		"	50.0		95.8	83-133		4.99	30	
Isopropylbenzene	44		"	50.0		88.0	81-127		7.40	30	
Methyl acetate	39		"	50.0		77.9	41-143		14.2	30	
Methyl tert-butyl ether (MTBE)	47		"	50.0		93.4	74-131		10.9	30	
Methylcyclohexane	45		"	50.0		89.9	70-130		7.96	30	
Methylene chloride	43		"	50.0		85.5	57-141		8.28	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31035 - EPA 5035A											
LCS Dup (BK31035-BSD1)								Prepared & Analyzed: 11/16/2023			
n-Butylbenzene	41		ug/L	50.0		82.4	80-130		6.21	30	
n-Propylbenzene	42		"	50.0		84.2	74-136		6.88	30	
o-Xylene	48		"	50.0		95.6	83-123		7.89	30	
p- & m- Xylenes	94		"	100		94.3	82-128		7.30	30	
p-Isopropyltoluene	45		"	50.0		90.8	85-125		6.09	30	
sec-Butylbenzene	45		"	50.0		89.5	83-125		6.58	30	
Styrene	51		"	50.0		102	86-126		8.65	30	
tert-Butyl alcohol (TBA)	210		"	250		84.5	70-130		17.8	30	
tert-Butylbenzene	46		"	50.0		91.5	80-127		7.03	30	
Tetrachloroethylene	45		"	50.0		90.6	80-129		7.80	30	
Toluene	47		"	50.0		94.7	85-121		7.90	30	
trans-1,2-Dichloroethylene	45		"	50.0		90.6	72-132		7.28	30	
trans-1,3-Dichloropropylene	39		"	50.0		79.0	78-132		9.97	30	
trans-1,4-dichloro-2-butene	39		"	50.0		77.1	75-135		12.0	30	
Trichloroethylene	47		"	50.0		94.1	84-123		7.80	30	
Trichlorofluoromethane	50		"	50.0		99.9	62-140		6.83	30	
Vinyl Chloride	46		"	50.0		92.0	52-130		7.09	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.6*		*"*	*50.0*		*97.3*	*77-125*				
Surrogate: SURR: Toluene-d8	*49.4*		*"*	*50.0*		*98.9*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*40.2*		*"*	*50.0*		*80.3*	*76-130*				
Batch BK31127 - EPA 5035A											
Blank (BK31127-BLK1)								Prepared & Analyzed: 11/17/2023			
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31127 - EPA 5035A											
Blank (BK31127-BLK1)									Prepared & Analyzed: 11/17/2023		
Benzene	ND	0.0050	mg/kg wet								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*53.2*		*ug/L*	*50.0*		*106*	*77-125*				
Surrogate: SURR: Toluene-d8	*50.6*		*"*	*50.0*		*101*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.5*		*"*	*50.0*		*95.0*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31127 - EPA 5035A											
Blank (BK31127-BLK2)											Prepared & Analyzed: 11/17/2023
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

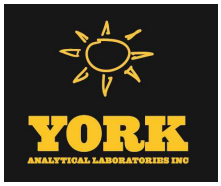
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31127 - EPA 5035A											
Blank (BK31127-BLK2)											Prepared & Analyzed: 11/17/2023
Methylene chloride	ND	1.0	mg/kg wet								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.7*		*ug/L*	*50.0*		*105*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.0*		*"*	*50.0*		*102*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.4*		*"*	*50.0*		*94.7*	*76-130*				
LCS (BK31127-BS1)											Prepared & Analyzed: 11/17/2023
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		99.8	75-129				
1,1,1-Trichloroethane	47		"	50.0		93.9	71-137				
1,1,2,2-Tetrachloroethane	52		"	50.0		105	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		96.4	58-146				
1,1,2-Trichloroethane	50		"	50.0		99.8	83-123				
1,1-Dichloroethane	45		"	50.0		89.0	75-130				
1,1-Dichloroethylene	46		"	50.0		91.6	64-137				
1,2,3-Trichlorobenzene	50		"	50.0		99.4	81-140				
1,2,3-Trichloropropane	51		"	50.0		102	81-126				
1,2,4-Trichlorobenzene	49		"	50.0		98.7	80-141				
1,2,4-Trimethylbenzene	50		"	50.0		100	84-125				
1,2-Dibromo-3-chloropropane	50		"	50.0		100	74-142				
1,2-Dibromoethane	52		"	50.0		104	86-123				
1,2-Dichlorobenzene	52		"	50.0		105	85-122				
1,2-Dichloroethane	48		"	50.0		96.0	71-133				
1,2-Dichloropropane	47		"	50.0		94.5	81-122				
1,3,5-Trimethylbenzene	49		"	50.0		97.7	82-126				
1,3-Dichlorobenzene	52		"	50.0		103	84-124				
1,4-Dichlorobenzene	51		"	50.0		102	84-124				
1,4-Dioxane	170		"	1050		15.8	10-228				
2-Butanone	44		"	50.0		88.0	58-147				
2-Hexanone	45		"	50.0		90.3	70-139				
4-Methyl-2-pentanone	48		"	50.0		96.3	72-132				
Acetone	30		"	50.0		60.5	36-155				
Acrolein	45		"	50.0		90.0	10-238				
Acrylonitrile	46		"	50.0		92.3	66-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31127 - EPA 5035A											
LCS (BK31127-BS1)							Prepared & Analyzed: 11/17/2023				
Benzene	46		ug/L	50.0		92.9	77-127				
Bromochloromethane	46		"	50.0		92.0	74-129				
Bromodichloromethane	48		"	50.0		95.9	81-124				
Bromoform	54		"	50.0		107	80-136				
Bromomethane	49		"	50.0		98.7	32-177				
Carbon disulfide	47		"	50.0		93.6	10-136				
Carbon tetrachloride	47		"	50.0		94.2	66-143				
Chlorobenzene	53		"	50.0		105	86-120				
Chloroethane	50		"	50.0		99.1	51-142				
Chloroform	47		"	50.0		93.5	76-131				
Chloromethane	49		"	50.0		98.6	49-132				
cis-1,2-Dichloroethylene	45		"	50.0		90.5	74-132				
cis-1,3-Dichloropropylene	47		"	50.0		94.3	81-129				
Cyclohexane	44		"	50.0		88.1	70-130				
Dibromochloromethane	50		"	50.0		100	10-200				
Dibromomethane	50		"	50.0		99.9	83-124				
Dichlorodifluoromethane	51		"	50.0		103	28-158				
Ethyl Benzene	49		"	50.0		98.2	84-125				
Hexachlorobutadiene	49		"	50.0		97.7	83-133				
Isopropylbenzene	50		"	50.0		99.6	81-127				
Methyl acetate	42		"	50.0		84.2	41-143				
Methyl tert-butyl ether (MTBE)	46		"	50.0		91.4	74-131				
Methylcyclohexane	46		"	50.0		92.1	70-130				
Methylene chloride	45		"	50.0		90.5	57-141				
n-Butylbenzene	50		"	50.0		100	80-130				
n-Propylbenzene	49		"	50.0		98.1	74-136				
o-Xylene	51		"	50.0		102	83-123				
p- & m- Xylenes	100		"	100		99.7	82-128				
p-Isopropyltoluene	50		"	50.0		101	85-125				
sec-Butylbenzene	51		"	50.0		101	83-125				
Styrene	51		"	50.0		102	86-126				
tert-Butyl alcohol (TBA)	210		"	250		85.6	70-130				
tert-Butylbenzene	51		"	50.0		101	80-127				
Tetrachloroethylene	37		"	50.0		74.1	80-129	Low Bias			
Toluene	49		"	50.0		97.9	85-121				
trans-1,2-Dichloroethylene	46		"	50.0		91.2	72-132				
trans-1,3-Dichloropropylene	48		"	50.0		95.3	78-132				
trans-1,4-dichloro-2-butene	51		"	50.0		102	75-135				
Trichloroethylene	47		"	50.0		94.6	84-123				
Trichlorofluoromethane	50		"	50.0		101	62-140				
Vinyl Chloride	47		"	50.0		94.8	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.1*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.3*		*"*	*50.0*		*103*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*47.3*		*"*	*50.0*		*94.6*	*76-130*				



Volatile Organic Compounds by GC/MS - Quality Control Data

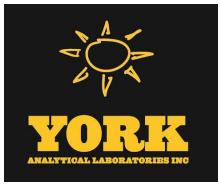
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31127 - EPA 5035A											
LCS Dup (BK31127-BSD1)							Prepared & Analyzed: 11/17/2023				
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		101	75-129		1.65	30	
1,1,1-Trichloroethane	47		"	50.0		93.0	71-137		0.942	30	
1,1,2,2-Tetrachloroethane	53		"	50.0		106	79-129		1.54	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		95.1	58-146		1.34	30	
1,1,2-Trichloroethane	50		"	50.0		99.7	83-123		0.120	30	
1,1-Dichloroethane	45		"	50.0		89.8	75-130		0.850	30	
1,1-Dichloroethylene	46		"	50.0		91.5	64-137		0.0218	30	
1,2,3-Trichlorobenzene	50		"	50.0		100	81-140		0.981	30	
1,2,3-Trichloropropane	52		"	50.0		104	81-126		2.56	30	
1,2,4-Trichlorobenzene	50		"	50.0		100	80-141		1.29	30	
1,2,4-Trimethylbenzene	51		"	50.0		102	84-125		2.05	30	
1,2-Dibromo-3-chloropropane	52		"	50.0		104	74-142		3.59	30	
1,2-Dibromoethane	52		"	50.0		105	86-123		0.383	30	
1,2-Dichlorobenzene	53		"	50.0		106	85-122		0.987	30	
1,2-Dichloroethane	48		"	50.0		96.6	71-133		0.623	30	
1,2-Dichloropropane	48		"	50.0		95.9	81-122		1.41	30	
1,3,5-Trimethylbenzene	50		"	50.0		99.5	82-126		1.78	30	
1,3-Dichlorobenzene	52		"	50.0		103	84-124		0.194	30	
1,4-Dichlorobenzene	52		"	50.0		103	84-124		1.31	30	
1,4-Dioxane	400		"	1050		37.9	10-228		82.2	30	Non-dir.
2-Butanone	46		"	50.0		91.7	58-147		4.16	30	
2-Hexanone	47		"	50.0		93.6	70-139		3.63	30	
4-Methyl-2-pentanone	49		"	50.0		98.4	72-132		2.20	30	
Acetone	31		"	50.0		61.3	36-155		1.41	30	
Acrolein	45		"	50.0		90.6	10-238		0.753	30	
Acrylonitrile	45		"	50.0		89.6	66-141		2.93	30	
Benzene	46		"	50.0		92.6	77-127		0.410	30	
Bromochloromethane	46		"	50.0		92.9	74-129		0.995	30	
Bromodichloromethane	48		"	50.0		96.7	81-124		0.872	30	
Bromoform	54		"	50.0		109	80-136		1.80	30	
Bromomethane	50		"	50.0		100	32-177		1.39	30	
Carbon disulfide	47		"	50.0		93.0	10-136		0.600	30	
Carbon tetrachloride	47		"	50.0		94.7	66-143		0.550	30	
Chlorobenzene	53		"	50.0		105	86-120		0.171	30	
Chloroethane	50		"	50.0		100	51-142		1.42	30	
Chloroform	47		"	50.0		94.0	76-131		0.533	30	
Chloromethane	49		"	50.0		97.6	49-132		1.10	30	
cis-1,2-Dichloroethylene	45		"	50.0		90.4	74-132		0.111	30	
cis-1,3-Dichloropropylene	48		"	50.0		95.1	81-129		0.781	30	
Cyclohexane	44		"	50.0		88.4	70-130		0.385	30	
Dibromochloromethane	51		"	50.0		101	10-200		0.715	30	
Dibromomethane	50		"	50.0		100	83-124		0.539	30	
Dichlorodifluoromethane	51		"	50.0		101	28-158		1.76	30	
Ethyl Benzene	50		"	50.0		99.5	84-125		1.31	30	
Hexachlorobutadiene	50		"	50.0		99.3	83-133		1.67	30	
Isopropylbenzene	51		"	50.0		102	81-127		2.15	30	
Methyl acetate	42		"	50.0		84.5	41-143		0.427	30	
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.7	74-131		1.39	30	
Methylcyclohexane	47		"	50.0		93.5	70-130		1.44	30	
Methylene chloride	45		"	50.0		90.5	57-141		0.0884	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31127 - EPA 5035A											
LCS Dup (BK31127-BSD1)								Prepared & Analyzed: 11/17/2023			
n-Butylbenzene	51		ug/L	50.0		102	80-130		1.54	30	
n-Propylbenzene	50		"	50.0		101	74-136		2.83	30	
o-Xylene	51		"	50.0		102	83-123		0.118	30	
p- & m- Xylenes	100		"	100		100	82-128		0.819	30	
p-Isopropyltoluene	51		"	50.0		102	85-125		1.10	30	
sec-Butylbenzene	51		"	50.0		103	83-125		1.45	30	
Styrene	52		"	50.0		103	86-126		1.09	30	
tert-Butyl alcohol (TBA)	220		"	250		89.8	70-130		4.74	30	
tert-Butylbenzene	51		"	50.0		103	80-127		1.33	30	
Tetrachloroethylene	38		"	50.0		75.0	80-129	Low Bias	1.29	30	
Toluene	49		"	50.0		97.9	85-121		0.0204	30	
trans-1,2-Dichloroethylene	45		"	50.0		90.6	72-132		0.682	30	
trans-1,3-Dichloropropylene	48		"	50.0		96.9	78-132		1.64	30	
trans-1,4-dichloro-2-butene	52		"	50.0		105	75-135		2.79	30	
Trichloroethylene	48		"	50.0		96.0	84-123		1.51	30	
Trichlorofluoromethane	51		"	50.0		101	62-140		0.673	30	
Vinyl Chloride	48		"	50.0		95.0	52-130		0.211	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*52.2*		*"*	*50.0*		*104*	*77-125*				
Surrogate: SURR: Toluene-d8	*51.2*		*"*	*50.0*		*102*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*48.2*		*"*	*50.0*		*96.4*	*76-130*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
Blank (BK31106-BLK1)											Prepared & Analyzed: 11/17/2023
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
Blank (BK31106-BLK1)											
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*0.753*		"	*1.66*		*45.4*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.695*		"	*1.66*		*41.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.343*		"	*0.831*		*41.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.338*		"	*0.831*		*40.7*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.819*		"	*1.66*		*49.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.415*		"	*0.831*		*50.0*	*24-116*				

Prepared & Analyzed: 11/17/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
LCS (BK31106-BS1)							Prepared & Analyzed: 11/17/2023				
1,1-Biphenyl	0.449	0.0416	mg/kg wet	0.831		54.0	18-111				
1,2,4,5-Tetrachlorobenzene	0.497	0.0830	"	0.831		59.8	21-131				
1,2,4-Trichlorobenzene	0.530	0.0416	"	0.831		63.8	10-140				
1,2-Dichlorobenzene	0.454	0.0416	"	0.831		54.7	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.413	0.0416	"	0.831		49.7	17-137				
1,3-Dichlorobenzene	0.454	0.0416	"	0.831		54.6	33-110				
1,4-Dichlorobenzene	0.449	0.0416	"	0.831		54.1	32-104				
2,3,4,6-Tetrachlorophenol	0.517	0.0830	"	0.831		62.2	30-130				
2,4,5-Trichlorophenol	0.521	0.0416	"	0.831		62.8	27-118				
2,4,6-Trichlorophenol	0.528	0.0416	"	0.831		63.6	31-120				
2,4-Dichlorophenol	0.561	0.0416	"	0.831		67.6	20-127				
2,4-Dimethylphenol	0.451	0.0416	"	0.831		54.4	14-132				
2,4-Dinitrophenol	0.586	0.0830	"	0.831		70.6	10-171				
2,4-Dinitrotoluene	0.551	0.0416	"	0.831		66.3	34-131				
2,6-Dinitrotoluene	0.539	0.0416	"	0.831		64.9	31-128				
2-Chloronaphthalene	0.467	0.0416	"	0.831		56.2	31-117				
2-Chlorophenol	0.489	0.0416	"	0.831		58.9	33-113				
2-Methylnaphthalene	0.499	0.0416	"	0.831		60.0	12-138				
2-Methylphenol	0.440	0.0416	"	0.831		53.0	10-136				
2-Nitroaniline	0.514	0.0830	"	0.831		61.9	27-132				
2-Nitrophenol	0.564	0.0416	"	0.831		67.9	17-129				
3- & 4-Methylphenols	0.440	0.0416	"	0.831		53.0	29-103				
3,3-Dichlorobenzidine	0.420	0.0416	"	0.831		50.6	22-149				
3-Nitroaniline	0.424	0.0830	"	0.831		51.0	20-133				
4,6-Dinitro-2-methylphenol	0.634	0.0830	"	0.831		76.3	10-143				
4-Bromophenyl phenyl ether	0.491	0.0416	"	0.831		59.2	29-120				
4-Chloro-3-methylphenol	0.552	0.0416	"	0.831		66.5	24-129				
4-Chloroaniline	0.324	0.0416	"	0.831		39.0	10-132				
4-Chlorophenyl phenyl ether	0.483	0.0416	"	0.831		58.1	27-124				
4-Nitroaniline	0.463	0.0830	"	0.831		55.8	16-128				
4-Nitrophenol	0.455	0.0830	"	0.831		54.8	10-141				
Acenaphthene	0.457	0.0416	"	0.831		55.0	30-121				
Acenaphthylene	0.449	0.0416	"	0.831		54.1	30-115				
Acetophenone	0.488	0.0416	"	0.831		58.8	20-112				
Aniline	0.316	0.166	"	0.831		38.1	10-119				
Anthracene	0.455	0.0416	"	0.831		54.8	34-118				
Atrazine	0.536	0.0416	"	0.831		64.5	26-112				
Benzaldehyde	0.423	0.0416	"	0.831		50.9	21-100				
Benzo(a)anthracene	0.509	0.0416	"	0.831		61.3	32-122				
Benzo(a)pyrene	0.487	0.0416	"	0.831		58.6	29-133				
Benzo(b)fluoranthene	0.497	0.0416	"	0.831		59.8	25-133				
Benzo(g,h,i)perylene	0.517	0.0416	"	0.831		62.3	10-143				
Benzo(k)fluoranthene	0.491	0.0416	"	0.831		59.2	25-128				
Benzoic acid	0.364	0.0416	"	0.831		43.9	10-140				
Benzyl alcohol	0.486	0.0416	"	0.831		58.5	30-115				
Benzyl butyl phthalate	0.495	0.0416	"	0.831		59.6	26-126				
Bis(2-chloroethoxy)methane	0.506	0.0416	"	0.831		60.9	19-132				
Bis(2-chloroethyl)ether	0.457	0.0416	"	0.831		55.1	19-125				
Bis(2-chloroisopropyl)ether	0.455	0.0416	"	0.831		54.8	20-135				
Bis(2-ethylhexyl)phthalate	0.504	0.0416	"	0.831		60.6	10-155				
Caprolactam	0.628	0.0830	"	0.831		75.6	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
LCS (BK31106-BS1)								Prepared & Analyzed: 11/17/2023			
Carbazole	0.455	0.0416	mg/kg wet	0.831		54.8	35-123				
Chrysene	0.493	0.0416	"	0.831		59.4	32-123				
Dibenzo(a,h)anthracene	0.526	0.0416	"	0.831		63.4	10-136				
Dibenzofuran	0.470	0.0416	"	0.831		56.6	29-121				
Diethyl phthalate	0.460	0.0416	"	0.831		55.4	34-116				
Dimethyl phthalate	0.479	0.0416	"	0.831		57.7	35-124				
Di-n-butyl phthalate	0.468	0.0416	"	0.831		56.3	31-116				
Di-n-octyl phthalate	0.532	0.0416	"	0.831		64.0	26-136				
Diphenylamine	0.527	0.0830	"	0.831		63.5	40-140				
Fluoranthene	0.464	0.0416	"	0.831		55.9	33-122				
Fluorene	0.459	0.0416	"	0.831		55.3	29-123				
Hexachlorobenzene	0.429	0.0416	"	0.831		51.6	21-124				
Hexachlorobutadiene	0.545	0.0416	"	0.831		65.6	10-149				
Hexachlorocyclopentadiene	0.283	0.0416	"	0.831		34.0	10-129				
Hexachloroethane	0.446	0.0416	"	0.831		53.7	28-108				
Indeno(1,2,3-cd)pyrene	0.535	0.0416	"	0.831		64.4	10-135				
Isophorone	0.519	0.0416	"	0.831		62.5	20-132				
Naphthalene	0.498	0.0416	"	0.831		60.0	23-124				
Nitrobenzene	0.499	0.0416	"	0.831		60.1	13-132				
N-Nitrosodimethylamine	0.481	0.0416	"	0.831		58.0	11-129				
N-nitroso-di-n-propylamine	0.444	0.0416	"	0.831		53.4	24-119				
N-Nitrosodiphenylamine	0.501	0.0416	"	0.831		60.3	22-152				
Pentachlorophenol	0.550	0.0416	"	0.831		66.2	10-139				
Phenanthrene	0.462	0.0416	"	0.831		55.6	33-123				
Phenol	0.503	0.0416	"	0.831		60.6	23-115				
Pyrene	0.511	0.0416	"	0.831		61.5	32-130				
Surrogate: SURR: 2-Fluorophenol	*0.993*		"	*1.66*		*59.8*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.948*		"	*1.66*		*57.0*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.496*		"	*0.831*		*59.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.451*		"	*0.831*		*54.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.09*		"	*1.66*		*65.8*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.521*		"	*0.831*		*62.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
Matrix Spike (BK31106-MS1)	*Source sample: 23K0775-01 (Matrix Spike)						Prepared & Analyzed: 11/17/2023				
1,1-Biphenyl	0.584	0.0954	mg/kg dry	0.954	ND	61.2	10-130				
1,2,4,5-Tetrachlorobenzene	0.658	0.191	"	0.954	ND	69.0	10-133				
1,2,4-Trichlorobenzene	0.642	0.0954	"	0.954	ND	67.3	10-127				
1,2-Dichlorobenzene	0.553	0.0954	"	0.954	ND	58.0	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.529	0.0954	"	0.954	ND	55.4	10-144				
1,3-Dichlorobenzene	0.551	0.0954	"	0.954	ND	57.8	11-111				
1,4-Dichlorobenzene	0.539	0.0954	"	0.954	ND	56.6	10-106				
2,3,4,6-Tetrachlorophenol	0.677	0.191	"	0.954	ND	71.0	30-130				
2,4,5-Trichlorophenol	0.683	0.0954	"	0.954	ND	71.6	10-127				
2,4,6-Trichlorophenol	0.671	0.0954	"	0.954	ND	70.4	10-132				
2,4-Dichlorophenol	0.682	0.0954	"	0.954	ND	71.5	10-128				
2,4-Dimethylphenol	0.568	0.0954	"	0.954	ND	59.5	10-137				
2,4-Dinitrophenol	0.560	0.191	"	0.954	ND	58.7	10-171				
2,4-Dinitrotoluene	0.687	0.0954	"	0.954	ND	72.0	16-135				
2,6-Dinitrotoluene	0.684	0.0954	"	0.954	ND	71.8	18-131				
2-Chloronaphthalene	0.591	0.0954	"	0.954	ND	62.0	10-129				
2-Chlorophenol	0.595	0.0954	"	0.954	ND	62.4	15-116				
2-Methylnaphthalene	0.630	0.0954	"	0.954	ND	66.1	10-147				
2-Methylphenol	0.548	0.0954	"	0.954	ND	57.5	10-136				
2-Nitroaniline	0.659	0.191	"	0.954	ND	69.1	10-137				
2-Nitrophenol	0.699	0.0954	"	0.954	ND	73.3	10-129				
3- & 4-Methylphenols	0.548	0.0954	"	0.954	ND	57.5	10-123				
3,3-Dichlorobenzidine	0.543	0.0954	"	0.954	ND	57.0	10-155				
3-Nitroaniline	0.547	0.191	"	0.954	ND	57.4	12-133				
4,6-Dinitro-2-methylphenol	0.671	0.191	"	0.954	ND	70.4	10-155				
4-Bromophenyl phenyl ether	0.645	0.0954	"	0.954	ND	67.6	14-128				
4-Chloro-3-methylphenol	0.715	0.0954	"	0.954	ND	75.0	10-134				
4-Chloroaniline	0.402	0.0954	"	0.954	ND	42.2	10-145				
4-Chlorophenyl phenyl ether	0.632	0.0954	"	0.954	ND	66.3	14-130				
4-Nitroaniline	0.592	0.191	"	0.954	ND	62.1	10-147				
4-Nitrophenol	0.571	0.191	"	0.954	ND	59.9	10-137				
Acenaphthene	0.625	0.0954	"	0.954	ND	65.5	10-146				
Acenaphthylene	0.584	0.0954	"	0.954	ND	61.3	10-134				
Acetophenone	0.606	0.0954	"	0.954	ND	63.5	10-116				
Aniline	0.359	0.382	"	0.954	ND	37.6	10-123				
Anthracene	0.635	0.0954	"	0.954	ND	66.6	10-142				
Atrazine	0.693	0.0954	"	0.954	ND	72.7	19-115				
Benzaldehyde	0.509	0.0954	"	0.954	ND	53.4	10-125				
Benzo(a)anthracene	0.807	0.0954	"	0.954	0.0694	77.4	10-158				
Benzo(a)pyrene	0.828	0.0954	"	0.954	0.0626	80.2	10-180				
Benzo(b)fluoranthene	0.848	0.0954	"	0.954	0.0755	81.0	10-200				
Benzo(g,h,i)perylene	0.806	0.0954	"	0.954	ND	84.5	10-138				
Benzo(k)fluoranthene	0.741	0.0954	"	0.954	ND	77.7	10-197				
Benzoic acid	0.102	0.0954	"	0.954	ND	10.7	10-166				
Benzyl alcohol	0.586	0.0954	"	0.954	ND	61.4	12-124				
Benzyl butyl phthalate	0.637	0.0954	"	0.954	ND	66.8	10-154				
Bis(2-chloroethoxy)methane	0.622	0.0954	"	0.954	ND	65.3	10-132				
Bis(2-chloroethyl)ether	0.559	0.0954	"	0.954	ND	58.6	10-119				
Bis(2-chloroisopropyl)ether	0.552	0.0954	"	0.954	ND	57.8	10-139				
Bis(2-ethylhexyl)phthalate	0.669	0.0954	"	0.954	ND	70.2	10-167				
Caprolactam	0.792	0.191	"	0.954	ND	83.0	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
Matrix Spike (BK31106-MS1)	*Source sample: 23K0775-01 (Matrix Spike)							Prepared & Analyzed: 11/17/2023			
Carbazole	0.615	0.0954	mg/kg dry	0.954	ND	64.5	10-167				
Chrysene	0.780	0.0954	"	0.954	0.0565	75.9	10-156				
Dibenzo(a,h)anthracene	0.709	0.0954	"	0.954	ND	74.3	10-137				
Dibenzofuran	0.631	0.0954	"	0.954	ND	66.2	10-147				
Diethyl phthalate	0.601	0.0954	"	0.954	ND	63.0	20-120				
Dimethyl phthalate	0.619	0.0954	"	0.954	ND	65.0	18-131				
Di-n-butyl phthalate	0.603	0.0954	"	0.954	ND	63.3	10-137				
Di-n-octyl phthalate	0.704	0.0954	"	0.954	ND	73.8	10-180				
Diphenylamine	0.684	0.191	"	0.954	ND	71.7	40-140				
Fluoranthene	0.921	0.0954	"	0.954	0.105	85.6	10-160				
Fluorene	0.630	0.0954	"	0.954	ND	66.1	10-157				
Hexachlorobenzene	0.564	0.0954	"	0.954	ND	59.1	10-137				
Hexachlorobutadiene	0.653	0.0954	"	0.954	ND	68.5	10-132				
Hexachlorocyclopentadiene	0.307	0.0954	"	0.954	ND	32.2	10-106				
Hexachloroethane	0.545	0.0954	"	0.954	ND	57.2	10-110				
Indeno(1,2,3-cd)pyrene	0.822	0.0954	"	0.954	ND	86.2	10-144				
Isophorone	0.642	0.0954	"	0.954	ND	67.4	10-132				
Naphthalene	0.627	0.0954	"	0.954	ND	65.8	10-141				
Nitrobenzene	0.627	0.0954	"	0.954	ND	65.8	10-131				
N-Nitrosodimethylamine	0.567	0.0954	"	0.954	ND	59.4	10-126				
N-nitroso-di-n-propylamine	0.545	0.0954	"	0.954	ND	57.2	10-125				
N-Nitrosodiphenylamine	0.664	0.0954	"	0.954	ND	69.7	10-177				
Pentachlorophenol	0.636	0.0954	"	0.954	ND	66.7	10-153				
Phenanthrene	0.848	0.0954	"	0.954	0.0526	83.4	10-148				
Phenol	0.625	0.0954	"	0.954	ND	65.5	10-126				
Pyrene	0.950	0.0954	"	0.954	0.0961	89.5	10-165				
Surrogate: SURR: 2-Fluorophenol	*1.23*		*"*	*1.91*		*64.6*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.19*		*"*	*1.91*		*62.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.618*		*"*	*0.954*		*64.8*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.584*		*"*	*0.954*		*61.3*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.41*		*"*	*1.91*		*73.9*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.660*		*"*	*0.954*		*69.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

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Batch BK31106 - EPA 3550C

Matrix Spike Dup (BK31106-MSD1) *Source sample: 23K0775-01 (Matrix Spike Dup) Prepared & Analyzed: 11/17/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1-Biphenyl	0.600	0.0954	mg/kg dry	0.954	ND	63.0	10-130		2.84	30	
1,2,4,5-Tetrachlorobenzene	0.659	0.191	"	0.954	ND	69.1	10-133		0.116	30	
1,2,4-Trichlorobenzene	0.696	0.0954	"	0.954	ND	73.0	10-127		8.21	30	
1,2-Dichlorobenzene	0.600	0.0954	"	0.954	ND	63.0	14-111		8.20	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.537	0.0954	"	0.954	ND	56.3	10-144		1.57	30	
1,3-Dichlorobenzene	0.591	0.0954	"	0.954	ND	62.0	11-111		7.08	30	
1,4-Dichlorobenzene	0.582	0.0954	"	0.954	ND	61.0	10-106		7.62	30	
2,3,4,6-Tetrachlorophenol	0.680	0.191	"	0.954	ND	71.3	30-130		0.450	30	
2,4,5-Trichlorophenol	0.663	0.0954	"	0.954	ND	69.5	10-127		2.95	30	
2,4,6-Trichlorophenol	0.676	0.0954	"	0.954	ND	70.9	10-132		0.679	30	
2,4-Dichlorophenol	0.709	0.0954	"	0.954	ND	74.3	10-128		3.84	30	
2,4-Dimethylphenol	0.590	0.0954	"	0.954	ND	61.8	10-137		3.82	30	
2,4-Dinitrophenol	0.523	0.191	"	0.954	ND	54.8	10-171		6.91	30	
2,4-Dinitrotoluene	0.696	0.0954	"	0.954	ND	73.0	16-135		1.32	30	
2,6-Dinitrotoluene	0.689	0.0954	"	0.954	ND	72.2	18-131		0.667	30	
2-Chloronaphthalene	0.610	0.0954	"	0.954	ND	63.9	10-129		3.05	30	
2-Chlorophenol	0.626	0.0954	"	0.954	ND	65.6	15-116		5.00	30	
2-Methylnaphthalene	0.653	0.0954	"	0.954	ND	68.5	10-147		3.57	30	
2-Methylphenol	0.571	0.0954	"	0.954	ND	59.8	10-136		3.95	30	
2-Nitroaniline	0.642	0.191	"	0.954	ND	67.4	10-137		2.58	30	
2-Nitrophenol	0.719	0.0954	"	0.954	ND	75.4	10-129		2.90	30	
3- & 4-Methylphenols	0.571	0.0954	"	0.954	ND	59.8	10-123		3.95	30	
3,3-Dichlorobenzidine	0.546	0.0954	"	0.954	ND	57.3	10-155		0.560	30	
3-Nitroaniline	0.587	0.191	"	0.954	ND	61.6	12-133		7.13	30	
4,6-Dinitro-2-methylphenol	0.652	0.191	"	0.954	ND	68.4	10-155		2.88	30	
4-Bromophenyl phenyl ether	0.629	0.0954	"	0.954	ND	65.9	14-128		2.52	30	
4-Chloro-3-methylphenol	0.711	0.0954	"	0.954	ND	74.6	10-134		0.535	30	
4-Chloroaniline	0.420	0.0954	"	0.954	ND	44.0	10-145		4.27	30	
4-Chlorophenyl phenyl ether	0.634	0.0954	"	0.954	ND	66.5	14-130		0.241	30	
4-Nitroaniline	0.589	0.191	"	0.954	ND	61.8	10-147		0.517	30	
4-Nitrophenol	0.582	0.191	"	0.954	ND	61.0	10-137		1.85	30	
Acenaphthene	0.594	0.0954	"	0.954	ND	62.2	10-146		5.13	30	
Acenaphthylene	0.591	0.0954	"	0.954	ND	62.0	10-134		1.17	30	
Acetophenone	0.642	0.0954	"	0.954	ND	67.3	10-116		5.75	30	
Aniline	0.377	0.382	"	0.954	ND	39.5	10-123		4.98	30	
Anthracene	0.625	0.0954	"	0.954	ND	65.5	10-142		1.57	30	
Atrazine	0.716	0.0954	"	0.954	ND	75.0	19-115		3.14	30	
Benzaldehyde	0.550	0.0954	"	0.954	ND	57.7	10-125		7.78	30	
Benzo(a)anthracene	0.747	0.0954	"	0.954	0.0694	71.0	10-158		7.76	30	
Benzo(a)pyrene	0.755	0.0954	"	0.954	0.0626	72.6	10-180		9.16	30	
Benzo(b)fluoranthene	0.770	0.0954	"	0.954	0.0755	72.8	10-200		9.62	30	
Benzo(g,h,i)perylene	0.778	0.0954	"	0.954	ND	81.6	10-138		3.47	30	
Benzo(k)fluoranthene	0.722	0.0954	"	0.954	ND	75.8	10-197		2.50	30	
Benzoic acid	0.0770	0.0954	"	0.954	ND	8.08	10-166	Low Bias	28.1	30	
Benzyl alcohol	0.622	0.0954	"	0.954	ND	65.3	12-124		6.06	30	
Benzyl butyl phthalate	0.641	0.0954	"	0.954	ND	67.2	10-154		0.597	30	
Bis(2-chloroethoxy)methane	0.633	0.0954	"	0.954	ND	66.4	10-132		1.70	30	
Bis(2-chloroethyl)ether	0.587	0.0954	"	0.954	ND	61.5	10-119		4.79	30	
Bis(2-chloroisopropyl)ether	0.599	0.0954	"	0.954	ND	62.8	10-139		8.22	30	
Bis(2-ethylhexyl)phthalate	0.659	0.0954	"	0.954	ND	69.1	10-167		1.49	30	
Caprolactam	0.810	0.191	"	0.954	ND	85.0	10-132		2.29	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

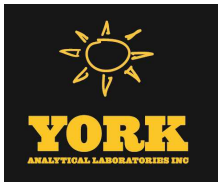
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
Matrix Spike Dup (BK31106-MSD1)	*Source sample: 23K0775-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/17/2023		
Carbazole	0.623	0.0954	mg/kg dry	0.954	ND	65.4	10-167		1.36	30	
Chrysene	0.716	0.0954	"	0.954	0.0565	69.2	10-156		8.56	30	
Dibenzo(a,h)anthracene	0.709	0.0954	"	0.954	ND	74.4	10-137		0.108	30	
Dibenzofuran	0.632	0.0954	"	0.954	ND	66.3	10-147		0.242	30	
Diethyl phthalate	0.610	0.0954	"	0.954	ND	63.9	20-120		1.39	30	
Dimethyl phthalate	0.625	0.0954	"	0.954	ND	65.5	18-131		0.858	30	
Di-n-butyl phthalate	0.609	0.0954	"	0.954	ND	63.8	10-137		0.881	30	
Di-n-octyl phthalate	0.708	0.0954	"	0.954	ND	74.2	10-180		0.540	30	
Diphenylamine	0.687	0.191	"	0.954	ND	72.0	40-140		0.445	30	
Fluoranthene	0.759	0.0954	"	0.954	0.105	68.6	10-160		19.3	30	
Fluorene	0.615	0.0954	"	0.954	ND	64.5	10-157		2.45	30	
Hexachlorobenzene	0.567	0.0954	"	0.954	ND	59.4	10-137		0.540	30	
Hexachlorobutadiene	0.712	0.0954	"	0.954	ND	74.6	10-132		8.61	30	
Hexachlorocyclopentadiene	0.299	0.0954	"	0.954	ND	31.4	10-106		2.77	30	
Hexachloroethane	0.573	0.0954	"	0.954	ND	60.1	10-110		4.91	30	
Indeno(1,2,3-cd)pyrene	0.796	0.0954	"	0.954	ND	83.4	10-144		3.30	30	
Isophorone	0.679	0.0954	"	0.954	ND	71.2	10-132		5.54	30	
Naphthalene	0.663	0.0954	"	0.954	ND	69.5	10-141		5.56	30	
Nitrobenzene	0.661	0.0954	"	0.954	ND	69.4	10-131		5.33	30	
N-Nitrosodimethylamine	0.623	0.0954	"	0.954	ND	65.4	10-126		9.49	30	
N-nitroso-di-n-propylamine	0.558	0.0954	"	0.954	ND	58.6	10-125		2.35	30	
N-Nitrosodiphenylamine	0.650	0.0954	"	0.954	ND	68.2	10-177		2.21	30	
Pentachlorophenol	0.662	0.0954	"	0.954	ND	69.4	10-153		4.00	30	
Phenanthrene	0.684	0.0954	"	0.954	0.0526	66.2	10-148		21.5	30	
Phenol	0.652	0.0954	"	0.954	ND	68.4	10-126		4.30	30	
Pyrene	0.793	0.0954	"	0.954	0.0961	73.1	10-165		17.9	30	
Surrogate: SURR: 2-Fluorophenol	*1.31*		"	*1.91*		*68.5*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.24*		"	*1.91*		*65.3*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.658*		"	*0.954*		*69.0*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.592*		"	*0.954*		*62.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.39*		"	*1.91*		*73.0*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.654*		"	*0.954*		*68.6*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31066 - EPA 3550C											
Blank (BK31066-BLK1)								Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	ND	0.0198	mg/kg								
Surrogate: 1,4-Dioxane-d8	*0.343*		"	*0.495*		*69.4*	*39-127.5*				
LCS (BK31066-BS1)								Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.572	0.0198	mg/kg	0.495		116	40-130				
Surrogate: 1,4-Dioxane-d8	*0.369*		"	*0.495*		*74.6*	*39-127.5*				
Matrix Spike (BK31066-MS1)	*Source sample: 23K0660-06 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.546	0.0198	mg/kg	0.495	ND	110	40-130				
Surrogate: 1,4-Dioxane-d8	*0.369*		"	*0.495*		*74.5*	*40-130*				
Matrix Spike Dup (BK31066-MSD1)	*Source sample: 23K0660-06 (Matrix Spike Dup)							Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.548	0.0198	mg/kg	0.495	ND	111	40-130		0.362	30	
Surrogate: 1,4-Dioxane-d8	*0.331*		"	*0.495*		*66.9*	*40-130*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31244 - EPA 1633 Prep											
Blank (BK31244-BLK1)											Prepared: 11/19/2023 Analyzed: 11/20/2023
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	ND	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*53.6*		"	*38.8*		*138*	*25-150*				
Surrogate: M5PFHxA	*59.8*		"	*41.7*		*143*	*25-150*				
Surrogate: M4PFHpA	*73.8*		"	*41.7*		*177*	*25-150*				
Surrogate: M3PFHxS	*64.3*		"	*39.5*		*163*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*56.0*		"	*41.7*		*134*	*25-150*				
Surrogate: M6PFDA	*27.5*		"	*20.8*		*132*	*25-150*				
Surrogate: M7PFUdA	*32.5*		"	*20.8*		*156*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31244 - EPA 1633 Prep											
Blank (BK31244-BLK1)								Prepared: 11/19/2023 Analyzed: 11/20/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*25.9*		*ng/L*	*20.8*		*124*	*25-150*				
Surrogate: M2PFTeDA	*21.0*		*"*	*20.8*		*101*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*11.6*		*"*	*167*		*6.96*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*50.6*		*"*	*39.9*		*127*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*92.6*		*"*	*83.3*		*111*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*43.4*		*"*	*41.7*		*104*	*10-150*				
Surrogate: d3-N-MeFOSAA	*71.2*		*"*	*83.3*		*85.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*81.5*		*"*	*83.3*		*97.9*	*25-150*				
Surrogate: M2-6:2 FTS	*72.5*		*"*	*79.2*		*91.6*	*25-200*				
Surrogate: M2-8:2 FTS	*69.0*		*"*	*80.0*		*86.2*	*25-200*				
Surrogate: M9PFNA	*28.3*		*"*	*20.8*		*136*	*25-150*				
Surrogate: M2-4:2 FTS	*75.5*		*"*	*78.2*		*96.5*	*25-150*				
Surrogate: d-N-MeFOSA	*30.3*		*"*	*41.7*		*72.7*	*25-150*				
Surrogate: d-N-EtFOSA	*31.6*		*"*	*41.7*		*75.8*	*25-150*				
Surrogate: M3HFPO-DA	*267*		*"*	*167*		*160*	*25-150*				
Surrogate: d9-N-EtFOSE	*237*		*"*	*417*		*56.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*283*		*"*	*417*		*67.8*	*25-150*				
LCS (BK31244-BS1)								Prepared: 11/19/2023 Analyzed: 11/20/2023			
Perfluorobutanesulfonic acid (PFBS)	72.1	3.54	ng/L	70.8		102	50-150				
Perfluorohexanoic acid (PFHxA)	71.8	4.00	"	80.0		89.8	50-150				
Perfluoroheptanoic acid (PFHpA)	64.8	4.00	"	80.0		80.9	50-150				
Perfluorohexanesulfonic acid (PFHxS)	67.2	3.66	"	73.2		91.7	50-150				
Perfluorooctanoic acid (PFOA)	83.8	4.00	"	80.0		105	50-150				
Perfluorooctanesulfonic acid (PFOS)	68.5	3.72	"	74.4		92.1	50-150				
Perfluorononanoic acid (PFNA)	76.5	4.00	"	80.0		95.7	50-150				
Perfluorodecanoic acid (PFDA)	76.4	4.00	"	80.0		95.5	50-150				
Perfluoroundecanoic acid (PFUnA)	75.8	4.00	"	80.0		94.7	50-150				
Perfluorododecanoic acid (PFDoA)	73.2	4.00	"	80.0		91.6	50-150				
Perfluorotridecanoic acid (PFTrDA)	88.0	4.00	"	80.0		110	50-150				
Perfluorotetradecanoic acid (PFTA)	80.5	4.00	"	80.0		101	50-150				
N-MeFOSAA	78.1	4.00	"	80.0		97.6	50-150				
N-EtFOSAA	87.4	4.00	"	80.0		109	50-150				
Perfluoropentanoic acid (PFPeA)	151	8.00	"	160		94.4	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	84.0	4.00	"	80.0		105	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	75.5	3.82	"	76.4		98.8	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	70.1	3.86	"	77.2		90.9	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	326	15.2	"	304		107	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	327	15.4	"	307		106	50-150				
Perfluoro-n-butanoic acid (PFBA)	263	16.0	"	320		82.3	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	126	7.12	"	142		88.6	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	119	8.00	"	160		74.2	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	19.8	8.00	"	160		12.4	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	206	8.00	"	160		129	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	69.8	3.76	"	75.2		92.8	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31244 - EPA 1633 Prep											
LCS (BK31244-BS1)								Prepared: 11/19/2023 Analyzed: 11/20/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	281	15.0	ng/L	300		93.7	50-150				
HFPO-DA (Gen-X)	140	16.0	"	160		87.3	50-150				
11CL-PF3OUdS	134	15.1	"	151		88.5	50-150				
9CL-PF3ONS	168	15.0	"	150		112	50-150				
ADONA	149	15.1	"	151		98.8	50-150				
Perfluorododecanesulfonic acid (PFDoS)	54.1	3.88	"	77.6		69.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	82.9	3.84	"	76.8		108	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	293	10.0	"	320		91.4	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1550	50.0	"	1600		97.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1390	50.0	"	1600		87.1	50-150				
N-MeFOSE	715	40.0	"	800		89.3	50-150				
N-MeFOSA	74.2	4.00	"	80.0		92.8	50-150				
N-EtFOSE	727	40.0	"	800		90.9	50-150				
N-EtFOSA	87.8	4.00	"	80.0		110	50-150				
Surrogate: M3PFBS	*55.7*		"	*38.8*		*144*	*25-150*				
Surrogate: M5PFHxA	*57.8*		"	*41.7*		*139*	*25-150*				
Surrogate: M4PFHpA	*62.6*		"	*41.7*		*150*	*25-150*				
Surrogate: M3PFHxS	*70.2*		"	*39.5*		*178*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*49.7*		"	*41.7*		*119*	*25-150*				
Surrogate: M6PFDA	*28.9*		"	*20.8*		*139*	*25-150*				
Surrogate: M7PFUdA	*31.1*		"	*20.8*		*149*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*27.8*		"	*20.8*		*134*	*25-150*				
Surrogate: M2PFTeDA	*20.7*		"	*20.8*		*99.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*8.61*		"	*167*		*5.16*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*51.6*		"	*39.9*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*71.6*		"	*83.3*		*86.0*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*44.1*		"	*41.7*		*106*	*10-150*				
Surrogate: d3-N-MeFOSAA	*75.5*		"	*83.3*		*90.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*72.7*		"	*83.3*		*87.3*	*25-150*				
Surrogate: M2-6:2 FTS	*78.8*		"	*79.2*		*99.4*	*25-200*				
Surrogate: M2-8:2 FTS	*79.8*		"	*80.0*		*99.7*	*25-200*				
Surrogate: M9PFNA	*31.2*		"	*20.8*		*150*	*25-150*				
Surrogate: M2-4:2 FTS	*84.1*		"	*78.2*		*108*	*25-150*				
Surrogate: d-N-MeFOSA	*29.6*		"	*41.7*		*71.1*	*25-150*				
Surrogate: d-N-EtFOSA	*23.0*		"	*41.7*		*55.3*	*25-150*				
Surrogate: M3HFPO-DA	*242*		"	*167*		*145*	*25-150*				
Surrogate: d9-N-EtFOSE	*249*		"	*417*		*59.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*306*		"	*417*		*73.3*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31244 - EPA 1633 Prep											
LCS (BK31244-BS2)								Prepared: 11/19/2023 Analyzed: 11/20/2023			
Perfluorobutanesulfonic acid (PFBS)	14.4	3.54	ng/L	14.2		102	50-150				
Perfluorohexanoic acid (PFHxA)	13.1	4.00	"	16.0		81.6	50-150				
Perfluoroheptanoic acid (PFHpA)	12.1	4.00	"	16.0		75.5	50-150				
Perfluorohexanesulfonic acid (PFHxS)	14.2	3.66	"	14.6		96.7	50-150				
Perfluorooctanoic acid (PFOA)	14.0	4.00	"	16.0		87.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	15.1	3.72	"	14.9		101	50-150				
Perfluorononanoic acid (PFNA)	16.0	4.00	"	16.0		100	50-150				
Perfluorodecanoic acid (PFDA)	14.4	4.00	"	16.0		90.1	50-150				
Perfluoroundecanoic acid (PFUnA)	16.4	4.00	"	16.0		102	50-150				
Perfluorododecanoic acid (PFDoA)	14.2	4.00	"	16.0		88.9	50-150				
Perfluorotridecanoic acid (PFTrDA)	18.4	4.00	"	16.0		115	50-150				
Perfluorotetradecanoic acid (PFTA)	16.5	4.00	"	16.0		103	50-150				
N-MeFOSAA	16.1	4.00	"	16.0		101	50-150				
N-EtFOSAA	17.5	4.00	"	16.0		110	50-150				
Perfluoropentanoic acid (PFPeA)	28.7	8.00	"	32.0		89.6	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	17.9	4.00	"	16.0		112	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	15.0	3.82	"	15.3		98.2	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	16.5	3.86	"	15.4		107	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	65.5	15.2	"	60.8		108	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	67.3	15.4	"	61.4		110	50-150				
Perfluoro-n-butanoic acid (PFBA)	53.1	16.0	"	64.0		83.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	23.9	7.12	"	28.5		84.1	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	20.8	8.00	"	32.0		64.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	5.34	8.00	"	32.0		16.7	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	35.7	8.00	"	32.0		112	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	14.0	3.76	"	15.0		92.9	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	58.9	15.0	"	60.0		98.2	50-150				
HFPO-DA (Gen-X)	30.1	16.0	"	32.0		94.0	50-150				
11CL-PF3OUdS	27.0	15.1	"	30.2		89.3	50-150				
9CL-PF3ONS	33.7	15.0	"	29.9		113	50-150				
ADONA	29.7	15.1	"	30.2		98.4	50-150				
Perfluorododecanesulfonic acid (PFDoS)	11.9	3.88	"	15.5		76.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	18.7	3.84	"	15.4		122	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	54.1	10.0	"	64.0		84.5	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	289	50.0	"	320		90.4	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	255	50.0	"	320		79.7	50-150				
N-MeFOSE	163	40.0	"	160		102	50-150				
N-MeFOSA	12.9	4.00	"	16.0		80.6	50-150				
N-EtFOSE	141	40.0	"	160		88.3	50-150				
N-EtFOSA	16.8	4.00	"	16.0		105	50-150				
Surrogate: M3PFBS	*53.1*		"	*38.8*		*137*	*25-150*				
Surrogate: M5PFHxA	*61.8*		"	*41.7*		*148*	*25-150*				
Surrogate: M4PFHpA	*68.3*		"	*41.7*		*164*	*25-150*				
Surrogate: M3PFHxS	*64.4*		"	*39.5*		*163*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*54.1*		"	*41.7*		*130*	*25-150*				
Surrogate: M6PFDA	*32.1*		"	*20.8*		*155*	*25-150*				
Surrogate: M7PFUdA	*35.9*		"	*20.8*		*172*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31244 - EPA 1633 Prep											
LCS (BK31244-BS2)									Prepared: 11/19/2023 Analyzed: 11/20/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*34.3*		*ng/L*	*20.8*		*165*	*25-150*				
Surrogate: M2PFTeDA	*24.3*		*"*	*20.8*		*117*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*13.0*		*"*	*167*		*7.79*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*47.5*		*"*	*39.9*		*119*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*86.3*		*"*	*83.3*		*104*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*39.3*		*"*	*41.7*		*94.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*69.2*		*"*	*83.3*		*83.1*	*25-150*				
Surrogate: d5-N-EtFOSAA	*72.4*		*"*	*83.3*		*87.0*	*25-150*				
Surrogate: M2-6:2 FTS	*72.8*		*"*	*79.2*		*91.9*	*25-200*				
Surrogate: M2-8:2 FTS	*76.1*		*"*	*80.0*		*95.2*	*25-200*				
Surrogate: M9PFNA	*27.7*		*"*	*20.8*		*133*	*25-150*				
Surrogate: M2-4:2 FTS	*74.0*		*"*	*78.2*		*94.6*	*25-150*				
Surrogate: d-N-MeFOSA	*25.7*		*"*	*41.7*		*61.6*	*25-150*				
Surrogate: d-N-EtFOSA	*25.2*		*"*	*41.7*		*60.5*	*25-150*				
Surrogate: M3HFPO-DA	*243*		*"*	*167*		*146*	*25-150*				
Surrogate: d9-N-EtFOSE	*235*		*"*	*417*		*56.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*264*		*"*	*417*		*63.3*	*25-150*				
Duplicate (BK31244-DUP1)	*Source sample: 23K0669-05 (Duplicate)								Prepared: 11/19/2023 Analyzed: 11/20/2023		
Perfluorobutanesulfonic acid (PFBS)	ND	1.66	ng/L		ND					30	
Perfluorohexanoic acid (PFHxA)	0.942	1.88	"		1.04				10.2	30	
Perfluoroheptanoic acid (PFHpA)	ND	1.88	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	1.02	1.72	"		1.00				1.81	30	
Perfluorooctanoic acid (PFOA)	1.02	1.88	"		1.10				7.69	30	
Perfluorooctanesulfonic acid (PFOS)	3.52	1.75	"		3.63				2.97	30	
Perfluorononanoic acid (PFNA)	ND	1.88	"		0.929					30	
Perfluorodecanoic acid (PFDA)	ND	1.88	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	1.88	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	1.88	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	1.88	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	1.88	"		ND					30	
N-MeFOSAA	ND	1.88	"		ND					30	
N-EtFOSAA	ND	1.88	"		ND					30	
Perfluoropentanoic acid (PFPeA)	1.25	3.76	"		1.42				12.6	30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	1.88	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	1.80	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	1.82	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	7.15	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	7.22	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	7.52	"		1.23					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	3.35	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	3.76	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	3.76	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	3.76	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	1.77	"		ND					30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31244 - EPA 1633 Prep											
Duplicate (BK31244-DUP1)	*Source sample: 23K0669-05 (Duplicate)								Prepared: 11/19/2023 Analyzed: 11/20/2023		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	7.05	ng/L		ND					30	
HFPO-DA (Gen-X)	ND	7.52	"		ND					30	
11CL-PF3OUdS	ND	7.11	"		ND					30	
9CL-PF3ONS	ND	7.04	"		ND					30	
ADONA	ND	7.11	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	1.82	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	1.81	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	4.70	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	23.5	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	23.5	"		ND					30	
N-MeFOSE	ND	18.8	"		ND					30	
N-MeFOSA	ND	1.88	"		ND					30	
N-EtFOSE	ND	18.8	"		ND					30	
N-EtFOSA	ND	1.88	"		ND					30	
Surrogate: M3PFBS	*23.5*		"	*18.2*		*129*	*25-150*				
Surrogate: M5PFHxA	*28.7*		"	*19.6*		*146*	*25-150*				
Surrogate: M4PFHpA	*31.5*		"	*19.6*		*160*	*25-150*				
Surrogate: M3PFHxS	*30.9*		"	*18.6*		*166*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*25.6*		"	*19.6*		*130*	*25-150*				
Surrogate: M6PFDA	*8.82*		"	*9.78*		*90.2*	*25-150*				
Surrogate: M7PFUdA	*9.18*		"	*9.78*		*93.9*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*8.27*		"	*9.78*		*84.5*	*25-150*				
Surrogate: M2PFTeDA	*6.05*		"	*9.78*		*61.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.46*		"	*78.5*		*4.40*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*17.0*		"	*18.8*		*90.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*11.6*		"	*39.2*		*29.5*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*14.0*		"	*19.6*		*71.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*18.5*		"	*39.2*		*47.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*20.0*		"	*39.2*		*51.1*	*25-150*				
Surrogate: M2-6:2 FTS	*32.8*		"	*37.2*		*88.1*	*25-200*				
Surrogate: M2-8:2 FTS	*20.6*		"	*37.6*		*54.7*	*25-200*				
Surrogate: M9PFNA	*10.8*		"	*9.78*		*110*	*25-150*				
Surrogate: M2-4:2 FTS	*43.7*		"	*36.8*		*119*	*25-150*				
Surrogate: d-N-MeFOSA	*12.0*		"	*19.6*		*61.0*	*25-150*				
Surrogate: d-N-EtFOSA	*8.69*		"	*19.6*		*44.3*	*25-150*				
Surrogate: M3HFPO-DA	*121*		"	*78.5*		*154*	*25-150*				
Surrogate: d9-N-EtFOSE	*60.6*		"	*196*		*30.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*85.6*		"	*196*		*43.7*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
Blank (BK31249-BLK1)											Prepared & Analyzed: 11/20/2023
Perfluorobutanesulfonic acid (PFBS)	ND	0.177	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.200	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.200	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.183	"								
Perfluorooctanoic acid (PFOA)	ND	0.200	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.186	"								
Perfluorononanoic acid (PFNA)	ND	0.200	"								
Perfluorodecanoic acid (PFDA)	ND	0.200	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.200	"								
Perfluorododecanoic acid (PFDoA)	ND	0.200	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.200	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.200	"								
N-MeFOSAA	ND	0.200	"								
N-EtFOSAA	ND	0.200	"								
Perfluoropentanoic acid (PFPeA)	ND	0.399	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.200	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.200	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.193	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.758	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.766	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.798	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.355	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.399	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.399	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.399	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.188	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.749	"								
HFPO-DA (Gen-X)	ND	0.798	"								
11CL-PF3OUdS	ND	0.754	"								
9CL-PF3ONS	ND	0.747	"								
ADONA	ND	0.754	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.194	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.192	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.998	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.99	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.99	"								
N-MeFOSE	ND	2.00	"								
N-MeFOSA	ND	0.200	"								
N-EtFOSE	ND	2.00	"								
N-EtFOSA	ND	0.200	"								
Surrogate: M3PFBS	*1.22*		"	*1.94*		*62.8*	*25-150*				
Surrogate: M5PFHxA	*1.82*		"	*2.08*		*87.3*	*25-150*				
Surrogate: M4PFHpA	*3.44*		"	*2.08*		*165*	*25-150*				
Surrogate: M3PFHxS	*2.43*		"	*1.97*		*123*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.11*		"	*2.08*		*101*	*25-150*				
Surrogate: M6PFDA	*0.927*		"	*1.04*		*89.3*	*25-150*				
Surrogate: M7PFUdA	*0.856*		"	*1.04*		*82.5*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
Blank (BK31249-BLK1)								Prepared & Analyzed: 11/20/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.655*		*ug/kg wet*	*1.04*		*63.1*	*25-150*				
Surrogate: M2PFTeDA	*0.660*		*"*	*1.04*		*63.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.317*		*"*	*8.33*		*3.81*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.66*		*"*	*1.99*		*83.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.678*		*"*	*4.16*		*16.3*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.39*		*"*	*2.08*		*66.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.02*		*"*	*4.16*		*48.6*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.19*		*"*	*4.16*		*52.8*	*25-150*				
Surrogate: M2-6:2 FTS	*2.03*		*"*	*3.95*		*51.5*	*25-200*				
Surrogate: M2-8:2 FTS	*1.77*		*"*	*3.99*		*44.3*	*25-200*				
Surrogate: M9PFNA	*1.07*		*"*	*1.04*		*103*	*25-150*				
Surrogate: M2-4:2 FTS	*1.74*		*"*	*3.90*		*44.7*	*25-150*				
Surrogate: d-N-MeFOSA	*0.981*		*"*	*2.08*		*47.1*	*25-150*				
Surrogate: d-N-EtFOSA	*0.749*		*"*	*2.08*		*36.0*	*25-150*				
Surrogate: M3HFPO-DA	*8.24*		*"*	*8.33*		*98.9*	*25-150*				
Surrogate: d9-N-EtFOSE	*10.1*		*"*	*20.8*		*48.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*13.1*		*"*	*20.8*		*63.2*	*25-150*				
LCS (BK31249-BS1)								Prepared & Analyzed: 11/20/2023			
Perfluorobutanesulfonic acid (PFBS)	3.66	0.175	ug/kg wet	3.50		104	50-150				
Perfluorohexanoic acid (PFHxA)	3.82	0.198	"	3.96		96.5	50-150				
Perfluoroheptanoic acid (PFHpA)	2.56	0.198	"	3.96		64.6	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.54	0.181	"	3.62		97.6	50-150				
Perfluorooctanoic acid (PFOA)	4.32	0.198	"	3.96		109	50-150				
Perfluorooctanesulfonic acid (PFOS)	4.04	0.184	"	3.68		110	50-150				
Perfluorononanoic acid (PFNA)	4.79	0.198	"	3.96		121	50-150				
Perfluorodecanoic acid (PFDA)	3.87	0.198	"	3.96		97.8	50-150				
Perfluoroundecanoic acid (PFUnA)	4.60	0.198	"	3.96		116	50-150				
Perfluorododecanoic acid (PFDoA)	4.10	0.198	"	3.96		104	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.43	0.198	"	3.96		112	50-150				
Perfluorotetradecanoic acid (PFTA)	3.67	0.198	"	3.96		92.7	50-150				
N-MeFOSAA	4.24	0.198	"	3.96		107	50-150				
N-EtFOSAA	4.01	0.198	"	3.96		101	50-150				
Perfluoropentanoic acid (PFPeA)	7.34	0.396	"	7.92		92.6	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.21	0.198	"	3.96		106	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.34	0.198	"	3.78		115	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.69	0.191	"	3.82		96.5	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	16.6	0.752	"	15.0		110	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.5	0.760	"	15.2		109	50-150				
Perfluoro-n-butanoic acid (PFBA)	13.7	0.792	"	15.8		86.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.30	0.352	"	7.05		104	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	6.96	0.396	"	7.92		87.9	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.39	0.396	"	7.92		30.2	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	15.1	0.396	"	7.92		190	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.52	0.186	"	3.72		94.7	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
LCS (BK31249-BS1)								Prepared & Analyzed: 11/20/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	15.3	0.743	ug/kg wet	14.9		103	50-150				
HFPO-DA (Gen-X)	8.59	0.792	"	7.92		108	50-150				
11CL-PF3OUdS	8.30	0.749	"	7.49		111	50-150				
9CL-PF3ONS	9.49	0.741	"	7.41		128	50-150				
ADONA	10.5	0.749	"	7.49		141	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.98	0.192	"	3.84		77.6	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.61	0.190	"	3.80		121	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	9.97	0.990	"	15.8		63.0	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	87.3	4.95	"	79.2		110	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	98.6	4.95	"	79.2		124	50-150				
N-MeFOSE	44.0	1.98	"	39.6		111	50-150				
N-MeFOSA	3.88	0.198	"	3.96		97.9	50-150				
N-EtFOSE	38.1	1.98	"	39.6		96.3	50-150				
N-EtFOSA	3.60	0.198	"	3.96		90.9	50-150				
Surrogate: M3PFBS	*1.42*		"	*1.92*		*73.7*	*25-150*				
Surrogate: M5PFHxA	*2.10*		"	*2.06*		*102*	*25-150*				
Surrogate: M4PFHpA	*3.58*		"	*2.06*		*173*	*25-150*				
Surrogate: M3PFHxS	*2.53*		"	*1.96*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.28*		"	*2.06*		*110*	*25-150*				
Surrogate: M6PFDA	*1.23*		"	*1.03*		*120*	*25-150*				
Surrogate: M7PFUdA	*1.18*		"	*1.03*		*115*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.06*		"	*1.03*		*103*	*25-150*				
Surrogate: M2PFTeDA	*0.776*		"	*1.03*		*75.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.359*		"	*8.27*		*4.35*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.89*		"	*1.98*		*95.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.771*		"	*4.12*		*18.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.76*		"	*2.06*		*85.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.44*		"	*4.12*		*59.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.73*		"	*4.12*		*66.3*	*25-150*				
Surrogate: M2-6:2 FTS	*2.67*		"	*3.92*		*68.0*	*25-200*				
Surrogate: M2-8:2 FTS	*2.27*		"	*3.96*		*57.4*	*25-200*				
Surrogate: M9PFNA	*1.22*		"	*1.03*		*118*	*25-150*				
Surrogate: M2-4:2 FTS	*2.46*		"	*3.87*		*63.5*	*25-150*				
Surrogate: d-N-MeFOSA	*1.16*		"	*2.06*		*56.3*	*25-150*				
Surrogate: d-N-EtFOSA	*0.990*		"	*2.06*		*48.0*	*25-150*				
Surrogate: M3HFPO-DA	*8.79*		"	*8.27*		*106*	*25-150*				
Surrogate: d9-N-EtFOSE	*12.1*		"	*20.6*		*58.5*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.9*		"	*20.6*		*72.0*	*25-150*				

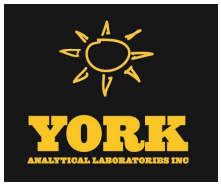
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
LCS (BK31249-BS2)								Prepared & Analyzed: 11/20/2023			
Perfluorobutanesulfonic acid (PFBS)	0.733	0.174	ug/kg wet	0.695		105	50-150				
Perfluorohexanoic acid (PFHxA)	0.722	0.196	"	0.786		91.9	50-150				
Perfluoroheptanoic acid (PFHpA)	0.503	0.196	"	0.786		64.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.700	0.180	"	0.719		97.4	50-150				
Perfluorooctanoic acid (PFOA)	0.706	0.196	"	0.786		89.8	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.701	0.183	"	0.731		95.9	50-150				
Perfluorononanoic acid (PFNA)	0.824	0.196	"	0.786		105	50-150				
Perfluorodecanoic acid (PFDA)	0.620	0.196	"	0.786		78.9	50-150				
Perfluoroundecanoic acid (PFUnA)	0.770	0.196	"	0.786		98.0	50-150				
Perfluorododecanoic acid (PFDoA)	0.874	0.196	"	0.786		111	50-150				
Perfluorotridecanoic acid (PFTrDA)	1.22	0.196	"	0.786		155	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	0.732	0.196	"	0.786		93.2	50-150				
N-MeFOSAA	ND	0.196	"	0.786			50-150	Low Bias			
N-EtFOSAA	0.670	0.196	"	0.786		85.3	50-150				
Perfluoropentanoic acid (PFPeA)	1.33	0.393	"	1.57		84.4	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.841	0.196	"	0.786		107	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.730	0.196	"	0.750		97.2	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.642	0.190	"	0.758		84.7	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.29	0.747	"	2.99		110	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.42	0.754	"	3.02		113	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.80	0.786	"	3.14		89.1	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.33	0.350	"	1.40		95.1	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.16	0.393	"	1.57		73.8	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.794	0.393	"	1.57		50.5	50-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	1.65	0.393	"	1.57		105	50-150				
Perfluoro-1-pentanesulfonate (PFPeS)	0.698	0.185	"	0.739		94.4	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.88	0.737	"	2.95		97.8	50-150				
HFPO-DA (Gen-X)	1.35	0.786	"	1.57		85.9	50-150				
11CL-PF3OUdS	1.14	0.743	"	1.49		76.9	50-150				
9CL-PF3ONS	1.21	0.735	"	1.47		82.4	50-150				
ADONA	1.39	0.743	"	1.49		93.3	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.691	0.191	"	0.762		90.7	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.907	0.189	"	0.754		120	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	2.24	0.982	"	3.14		71.2	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	12.6	4.91	"	15.7		79.9	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	11.6	4.91	"	15.7		73.6	50-150				
N-MeFOSE	8.16	1.96	"	7.86		104	50-150				
N-MeFOSA	0.751	0.196	"	0.786		95.6	50-150				
N-EtFOSE	7.16	1.96	"	7.86		91.1	50-150				
N-EtFOSA	0.446	0.196	"	0.786		56.7	50-150				
Surrogate: M3PFBS	*2.09*		"	*1.91*		*110*	*25-150*				
Surrogate: M5PFHxA	*2.43*		"	*2.05*		*119*	*25-150*				
Surrogate: M4PFHpA	*3.15*		"	*2.05*		*154*	*25-150*				
Surrogate: M3PFHxS	*2.36*		"	*1.94*		*122*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.04*		"	*2.05*		*99.8*	*25-150*				
Surrogate: M6PFDA	*1.12*		"	*1.02*		*110*	*25-150*				
Surrogate: M7PFUdA	*1.05*		"	*1.02*		*102*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
LCS (BK31249-BS2)								Prepared & Analyzed: 11/20/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.995*		*ug/kg wet*	*1.02*		*97.4*	*25-150*				
Surrogate: M2PFTeDA	*0.618*		*"*	*1.02*		*60.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*3.47*		*"*	*8.20*		*42.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.44*		*"*	*1.96*		*73.7*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*4.33*		*"*	*4.09*		*106*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.21*		*"*	*2.05*		*59.1*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.02*		*"*	*4.09*		*49.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.43*		*"*	*4.09*		*59.3*	*25-150*				
Surrogate: M2-6:2 FTS	*2.20*		*"*	*3.89*		*56.5*	*25-200*				
Surrogate: M2-8:2 FTS	*2.03*		*"*	*3.93*		*51.6*	*25-200*				
Surrogate: M9PFNA	*1.00*		*"*	*1.02*		*98.2*	*25-150*				
Surrogate: M2-4:2 FTS	*2.71*		*"*	*3.84*		*70.5*	*25-150*				
Surrogate: d-N-MeFOSA	*0.963*		*"*	*2.05*		*47.0*	*25-150*				
Surrogate: d-N-EtFOSA	*1.20*		*"*	*2.05*		*58.8*	*25-150*				
Surrogate: M3HFPO-DA	*11.2*		*"*	*8.20*		*136*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.8*		*"*	*20.5*		*67.2*	*25-150*				
Surrogate: d7-N-MeFOSE	*17.1*		*"*	*20.5*		*83.5*	*25-150*				
Matrix Spike (BK31249-MS1)	*Source sample: 23K0671-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
Perfluorobutanesulfonic acid (PFBS)	3.61	0.191	ug/kg dry	3.83	ND	94.2	25-150				
Perfluorohexanoic acid (PFHxA)	3.70	0.216	"	4.33	ND	85.6	25-150				
Perfluoroheptanoic acid (PFHpA)	3.23	0.216	"	4.33	ND	74.6	25-150				
Perfluorohexanesulfonic acid (PFHxS)	3.55	0.198	"	3.96	ND	89.7	25-150				
Perfluorooctanoic acid (PFOA)	4.45	0.216	"	4.33	ND	103	25-150				
Perfluorooctanesulfonic acid (PFOS)	3.78	0.201	"	4.02	0.286	86.9	25-150				
Perfluorononanoic acid (PFNA)	3.82	0.216	"	4.33	ND	88.3	25-150				
Perfluorodecanoic acid (PFDA)	3.82	0.216	"	4.33	ND	88.3	25-150				
Perfluoroundecanoic acid (PFUnA)	4.42	0.216	"	4.33	ND	102	25-150				
Perfluorododecanoic acid (PFDoA)	4.12	0.216	"	4.33	ND	95.4	25-150				
Perfluorotridecanoic acid (PFTrDA)	4.52	0.216	"	4.33	ND	105	25-150				
Perfluorotetradecanoic acid (PFTA)	4.14	0.216	"	4.33	ND	95.8	25-150				
N-MeFOSAA	4.52	0.216	"	4.33	ND	104	25-150				
N-EtFOSAA	4.78	0.216	"	4.33	0.345	103	25-150				
Perfluoropentanoic acid (PFPeA)	7.90	0.433	"	8.65	ND	91.3	25-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.21	0.216	"	4.33	ND	97.3	25-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	3.84	0.216	"	4.13	ND	93.0	25-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.57	0.209	"	4.17	ND	85.6	25-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	16.6	0.822	"	16.4	ND	101	25-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.5	0.830	"	16.6	ND	99.4	25-150				
Perfluoro-n-butanoic acid (PFBA)	15.2	0.865	"	17.3	ND	87.6	25-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.19	0.385	"	7.70	ND	93.4	25-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.97	0.433	"	8.65	ND	69.0	25-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	2.67	0.433	"	8.65	ND	30.9	25-150				
Perfluoro-5-oxahexanoic acid (PFMBA)	14.0	0.433	"	8.65	ND	162	25-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.55	0.203	"	4.07	ND	87.4	25-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
Matrix Spike (BK31249-MS1)	*Source sample: 23K0671-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.9	0.811	ug/kg dry	16.2	ND	91.9	25-150				
HFPO-DA (Gen-X)	8.38	0.865	"	8.65	ND	96.9	25-150				
11CL-PF3OUdS	7.67	0.817	"	8.17	ND	93.9	25-150				
9CL-PF3ONS	10.1	0.809	"	8.09	ND	125	25-150				
ADONA	9.32	0.817	"	8.17	ND	114	25-150				
Perfluorododecanesulfonic acid (PFDoS)	2.70	0.210	"	4.20	ND	64.4	25-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	4.13	0.208	"	4.15	ND	99.4	25-150				
3-Perfluoropropyl propanoic acid (FPrPA)	11.2	1.08	"	17.3	ND	64.7	25-150				
3-Perfluoropentyl propanoic acid (FPePA)	71.4	5.41	"	86.5	ND	82.5	25-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	66.6	5.41	"	86.5	ND	77.0	25-150				
N-MeFOSE	42.2	2.16	"	43.3	ND	97.6	25-150				
N-MeFOSA	3.68	0.216	"	4.33	ND	85.1	25-150				
N-EtFOSE	42.7	2.16	"	43.3	ND	98.7	25-150				
N-EtFOSA	4.42	0.216	"	4.33	ND	102	25-150				
Surrogate: M3PFBS	*2.13*		"	*2.10*		*102*	*25-150*				
Surrogate: M5PFHxA	*2.57*		"	*2.25*		*114*	*25-150*				
Surrogate: M4PFHpA	*3.12*		"	*2.25*		*138*	*25-150*				
Surrogate: M3PFHxS	*3.17*		"	*2.14*		*148*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.26*		"	*2.25*		*100*	*25-150*				
Surrogate: M6PFDA	*1.44*		"	*1.12*		*128*	*25-150*				
Surrogate: M7PFUdA	*1.84*		"	*1.12*		*163*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.54*		"	*1.12*		*137*	*25-150*				
Surrogate: M2PFTeDA	*1.15*		"	*1.12*		*103*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.556*		"	*9.03*		*6.16*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.62*		"	*2.16*		*121*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.57*		"	*4.50*		*34.9*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.11*		"	*2.25*		*93.5*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.17*		"	*4.50*		*70.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.55*		"	*4.50*		*78.9*	*25-150*				
Surrogate: M2-6:2 FTS	*4.08*		"	*4.28*		*95.3*	*25-200*				
Surrogate: M2-8:2 FTS	*4.65*		"	*4.33*		*108*	*25-200*				
Surrogate: M9PFNA	*1.36*		"	*1.12*		*121*	*25-150*				
Surrogate: M2-4:2 FTS	*3.57*		"	*4.23*		*84.6*	*25-150*				
Surrogate: d-N-MeFOSA	*1.48*		"	*2.25*		*65.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.39*		"	*2.25*		*61.5*	*25-150*				
Surrogate: M3HFPO-DA	*10.6*		"	*9.03*		*117*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.7*		"	*22.5*		*60.6*	*25-150*				
Surrogate: d7-N-MeFOSE	*14.5*		"	*22.5*		*64.3*	*25-150*				



PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
Matrix Spike Dup (BK31249-MSD1)	*Source sample: 23K0671-01 (Matrix Spike Dup)								Prepared: 11/20/2023 Analyzed: 11/21/2023		
Perfluorobutanesulfonic acid (PFBS)	4.12	0.192	ug/kg dry	3.84	ND	107	25-150		13.2	35	
Perfluorohexanoic acid (PFHxA)	3.97	0.217	"	4.33	ND	91.6	25-150		6.94	35	
Perfluoroheptanoic acid (PFHpA)	3.68	0.217	"	4.33	ND	84.8	25-150		13.1	35	
Perfluorohexanesulfonic acid (PFHxS)	3.94	0.198	"	3.97	ND	99.5	25-150		10.6	35	
Perfluorooctanoic acid (PFOA)	4.92	0.217	"	4.33	ND	114	25-150		10.2	35	
Perfluorooctanesulfonic acid (PFOS)	4.25	0.202	"	4.03	0.286	98.5	25-150		11.7	35	
Perfluorononanoic acid (PFNA)	4.23	0.217	"	4.33	ND	97.5	25-150		10.1	35	
Perfluorodecanoic acid (PFDA)	3.68	0.217	"	4.33	ND	85.0	25-150		3.66	35	
Perfluoroundecanoic acid (PFUnA)	4.77	0.217	"	4.33	ND	110	25-150		7.60	35	
Perfluorododecanoic acid (PFDoA)	4.28	0.217	"	4.33	ND	98.7	25-150		3.65	35	
Perfluorotridecanoic acid (PFTrDA)	4.73	0.217	"	4.33	ND	109	25-150		4.63	35	
Perfluorotetradecanoic acid (PFTA)	4.44	0.217	"	4.33	ND	102	25-150		6.86	35	
N-MeFOSAA	4.98	0.217	"	4.33	ND	115	25-150		9.73	35	
N-EtFOSAA	4.97	0.217	"	4.33	0.345	107	25-150		3.90	35	
Perfluoropentanoic acid (PFPeA)	8.46	0.433	"	8.67	ND	97.6	25-150		6.88	35	
Perfluoro-1-octanesulfonamide (FOSA)	4.61	0.217	"	4.33	ND	106	25-150		9.13	35	
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.39	0.217	"	4.14	ND	106	25-150		13.3	35	
Perfluoro-1-decanesulfonic acid (PFDS)	3.64	0.209	"	4.18	ND	87.0	25-150		1.80	35	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	17.8	0.823	"	16.5	ND	108	25-150		6.96	35	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	17.9	0.832	"	16.6	ND	108	25-150		8.31	35	
Perfluoro-n-butanoic acid (PFBA)	15.4	0.867	"	17.3	ND	88.8	25-150		1.55	35	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.94	0.386	"	7.71	ND	103	25-150		9.91	30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.69	0.433	"	8.67	ND	65.7	25-150		4.76	30	
Perfluoro-4-oxapentanoic acid (PFMPA)	2.65	0.433	"	8.67	ND	30.6	25-150		0.619	30	
Perfluoro-5-oxahexanoic acid (PFMBA)	14.7	0.433	"	8.67	ND	170	25-150	High Bias	5.16	30	
Perfluoro-1-pentanesulfonate (PFPeS)	4.02	0.204	"	4.07	ND	98.8	25-150		12.5	30	
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	16.9	0.813	"	16.3	ND	104	25-150		12.9	30	
HFPO-DA (Gen-X)	7.96	0.867	"	8.67	ND	91.8	25-150		5.16	30	
11CL-PF3OUdS	8.08	0.819	"	8.19	ND	98.7	25-150		5.17	30	
9CL-PF3ONS	11.0	0.810	"	8.10	ND	135	25-150		8.43	30	
ADONA	9.61	0.819	"	8.19	ND	117	25-150		3.02	30	
Perfluorododecanesulfonic acid (PFDoS)	2.88	0.210	"	4.20	ND	68.4	25-150		6.18	30	
Perfluoro-1-nonanesulfonic acid (PFNS)	4.68	0.208	"	4.16	ND	113	25-150		12.6	30	
3-Perfluoropropyl propanoic acid (FPrPA)	12.2	1.08	"	17.3	ND	70.6	25-150		8.91	30	
3-Perfluoropentyl propanoic acid (FPePA)	82.0	5.42	"	86.7	ND	94.6	25-150		13.8	30	
3-Perfluoroheptyl propanoic acid (FHpPA)	75.9	5.42	"	86.7	ND	87.5	25-150		12.9	30	
N-MeFOSE	42.2	2.17	"	43.3	ND	97.5	25-150		0.0269	30	
N-MeFOSA	3.91	0.217	"	4.33	ND	90.3	25-150		6.08	30	
N-EtFOSE	40.1	2.17	"	43.3	ND	92.6	25-150		6.16	30	
N-EtFOSA	4.44	0.217	"	4.33	ND	102	25-150		0.353	30	
Surrogate: M3PFBS	*1.82*		"	*2.10*		*86.4*	*25-150*				
Surrogate: M5PFHxA	*2.11*		"	*2.26*		*93.3*	*25-150*				
Surrogate: M4PFHpA	*2.66*		"	*2.26*		*118*	*25-150*				
Surrogate: M3PFHxS	*2.70*		"	*2.14*		*126*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.25*		"	*2.26*		*99.4*	*25-150*				
Surrogate: M6PFDA	*1.50*		"	*1.13*		*133*	*25-150*				
Surrogate: M7PFUdA	*1.50*		"	*1.13*		*133*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31249 - EPA 1633 Prep											
Matrix Spike Dup (BK31249-MSD1)	*Source sample: 23K0671-01 (Matrix Spike Dup)								Prepared: 11/20/2023 Analyzed: 11/21/2023		
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.25*		*ug/kg dry*	*1.13*		*111*	*25-150*				
Surrogate: M2PFTeDA	*0.929*		*"*	*1.13*		*82.4*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.495*		*"*	*9.05*		*5.47*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.37*		*"*	*2.16*		*110*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.34*		*"*	*4.51*		*29.7*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.06*		*"*	*2.26*		*91.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.97*		*"*	*4.51*		*65.9*	*25-150*				
Surrogate: d5-N-EtFOSAA	*3.62*		*"*	*4.51*		*80.3*	*25-150*				
Surrogate: M2-6:2 FTS	*3.79*		*"*	*4.29*		*88.3*	*25-200*				
Surrogate: M2-8:2 FTS	*4.59*		*"*	*4.33*		*106*	*25-200*				
Surrogate: M9PFNA	*1.33*		*"*	*1.13*		*118*	*25-150*				
Surrogate: M2-4:2 FTS	*3.25*		*"*	*4.24*		*76.8*	*25-150*				
Surrogate: d-N-MeFOSA	*1.51*		*"*	*2.26*		*66.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.37*		*"*	*2.26*		*60.4*	*25-150*				
Surrogate: M3HFPO-DA	*9.48*		*"*	*9.05*		*105*	*25-150*				
Surrogate: d9-N-EtFOSE	*13.3*		*"*	*22.6*		*58.8*	*25-150*				
Surrogate: d7-N-MeFOSE	*12.9*		*"*	*22.6*		*57.2*	*25-150*				

Semivolatile Organic Compounds by GC/MS TIC - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31106 - EPA 3550C											
Blank (BK31106-BLK1)											Prepared & Analyzed: 11/17/2023
Tentatively Identified Compounds	0.00		mg/kg wet								

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31064 - EPA 3550C											
Blank (BK31064-BLK1)										Prepared & Analyzed: 11/16/2023	
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*58.5*		*"*	*66.4*		*88.1*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*46.5*		*"*	*66.4*		*69.9*	*30-150*				
LCS (BK31064-BS1)										Prepared & Analyzed: 11/16/2023	
4,4'-DDD	31.0	1.64	ug/kg wet	33.2		93.2	40-140				
4,4'-DDE	29.4	1.64	"	33.2		88.5	40-140				
4,4'-DDT	32.0	1.64	"	33.2		96.3	40-140				
Aldrin	28.3	1.64	"	33.2		85.3	40-140				
alpha-BHC	27.5	1.64	"	33.2		82.9	40-140				
alpha-Chlordane	30.3	1.64	"	33.2		91.2	40-140				
beta-BHC	31.8	1.64	"	33.2		95.7	40-140				
delta-BHC	25.9	1.64	"	33.2		78.0	40-140				
Dieldrin	28.9	1.64	"	33.2		86.9	40-140				
Endosulfan I	29.8	1.64	"	33.2		89.8	40-140				
Endosulfan II	29.8	1.64	"	33.2		89.6	40-140				
Endosulfan sulfate	26.1	1.64	"	33.2		78.6	40-140				
Endrin	30.0	1.64	"	33.2		90.4	40-140				
Endrin aldehyde	28.5	1.64	"	33.2		85.8	40-140				
Endrin ketone	30.6	1.64	"	33.2		92.1	40-140				
gamma-BHC (Lindane)	28.1	1.64	"	33.2		84.6	40-140				
gamma-Chlordane	30.7	1.64	"	33.2		92.5	40-140				
Heptachlor	30.4	1.64	"	33.2		91.4	40-140				
Heptachlor epoxide	30.1	1.64	"	33.2		90.5	40-140				
Methoxychlor	39.9	8.22	"	33.2		120	40-140				
Surrogate: Decachlorobiphenyl	*61.3*		*"*	*66.4*		*92.3*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*49.6*		*"*	*66.4*		*74.6*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31064 - EPA 3550C											
Matrix Spike (BK31064-MS1)	*Source sample: 23K0702-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
4,4'-DDD	37.5	1.99	ug/kg dry	40.2	ND	93.1	30-150				
4,4'-DDE	34.5	1.99	"	40.2	ND	85.8	30-150				
4,4'-DDT	38.9	1.99	"	40.2	ND	96.7	30-150				
Aldrin	33.8	1.99	"	40.2	ND	83.9	30-150				
alpha-BHC	33.1	1.99	"	40.2	ND	82.1	30-150				
alpha-Chlordane	35.9	1.99	"	40.2	ND	89.3	30-150				
beta-BHC	37.8	1.99	"	40.2	ND	94.0	30-150				
delta-BHC	31.4	1.99	"	40.2	ND	78.1	30-150				
Dieldrin	34.6	1.99	"	40.2	ND	85.9	30-150				
Endosulfan I	35.6	1.99	"	40.2	ND	88.5	30-150				
Endosulfan II	36.1	1.99	"	40.2	ND	89.7	30-150				
Endosulfan sulfate	31.6	1.99	"	40.2	ND	78.5	30-150				
Endrin	36.2	1.99	"	40.2	ND	89.9	30-150				
Endrin aldehyde	33.8	1.99	"	40.2	ND	84.1	30-150				
Endrin ketone	37.8	1.99	"	40.2	ND	93.9	30-150				
gamma-BHC (Lindane)	33.7	1.99	"	40.2	ND	83.7	30-150				
gamma-Chlordane	36.3	1.99	"	40.2	ND	90.3	30-150				
Heptachlor	36.5	1.99	"	40.2	ND	90.6	30-150				
Heptachlor epoxide	35.8	1.99	"	40.2	ND	89.0	30-150				
Methoxychlor	45.0	9.96	"	40.2	ND	112	30-150				
Surrogate: Decachlorobiphenyl	*71.6*		*"*	*80.5*		*89.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*57.6*		*"*	*80.5*		*71.6*	*30-150*				
Matrix Spike Dup (BK31064-MSD1)	*Source sample: 23K0702-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/16/2023			
4,4'-DDD	39.7	1.99	ug/kg dry	40.2	ND	98.7	30-150		5.84	30	
4,4'-DDE	36.0	1.99	"	40.2	ND	89.5	30-150		4.23	30	
4,4'-DDT	41.1	1.99	"	40.2	ND	102	30-150		5.48	30	
Aldrin	35.8	1.99	"	40.2	ND	89.0	30-150		5.95	30	
alpha-BHC	35.2	1.99	"	40.2	ND	87.5	30-150		6.33	30	
alpha-Chlordane	37.9	1.99	"	40.2	ND	94.2	30-150		5.39	30	
beta-BHC	39.8	1.99	"	40.2	ND	98.9	30-150		5.08	30	
delta-BHC	33.3	1.99	"	40.2	ND	82.9	30-150		5.93	30	
Dieldrin	36.5	1.99	"	40.2	ND	90.7	30-150		5.43	30	
Endosulfan I	37.6	1.99	"	40.2	ND	93.5	30-150		5.46	30	
Endosulfan II	38.0	1.99	"	40.2	ND	94.5	30-150		5.18	30	
Endosulfan sulfate	34.2	1.99	"	40.2	ND	84.9	30-150		7.86	30	
Endrin	38.2	1.99	"	40.2	ND	94.8	30-150		5.37	30	
Endrin aldehyde	36.2	1.99	"	40.2	ND	90.0	30-150		6.77	30	
Endrin ketone	39.9	1.99	"	40.2	ND	99.2	30-150		5.50	30	
gamma-BHC (Lindane)	35.9	1.99	"	40.2	ND	89.2	30-150		6.34	30	
gamma-Chlordane	38.1	1.99	"	40.2	ND	94.6	30-150		4.73	30	
Heptachlor	38.7	1.99	"	40.2	ND	96.2	30-150		6.03	30	
Heptachlor epoxide	38.0	1.99	"	40.2	ND	94.3	30-150		5.80	30	
Methoxychlor	48.9	9.96	"	40.2	ND	122	30-150		8.30	30	
Surrogate: Decachlorobiphenyl	*76.4*		*"*	*80.5*		*95.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*61.6*		*"*	*80.5*		*76.6*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31064 - EPA 3550C											
Blank (BK31064-BLK2)									Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0432*		"	*0.0664*		*65.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0538*		"	*0.0664*		*81.0*	*30-140*				
LCS (BK31064-BS2)									Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	0.238	0.0166	mg/kg wet	0.332		71.7	40-130				
Aroclor 1260	0.276	0.0166	"	0.332		83.1	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0435*		"	*0.0664*		*65.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0545*		"	*0.0664*		*82.0*	*30-140*				
Matrix Spike (BK31064-MS2)	*Source sample: 23K0702-01 (Matrix Spike)								Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	0.305	0.0201	mg/kg dry	0.402	ND	75.8	40-140				
Aroclor 1260	0.351	0.0201	"	0.402	ND	87.2	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0535*		"	*0.0805*		*66.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0668*		"	*0.0805*		*83.0*	*30-140*				
Matrix Spike Dup (BK31064-MSD2)	*Source sample: 23K0702-01 (Matrix Spike Dup)								Prepared: 11/16/2023 Analyzed: 11/17/2023		
Aroclor 1016	0.276	0.0201	mg/kg dry	0.402	ND	68.5	40-140		10.0	50	
Aroclor 1260	0.318	0.0201	"	0.402	ND	78.9	40-140		9.97	50	
Surrogate: Tetrachloro-m-xylene	*0.0499*		"	*0.0805*		*62.0*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0620*		"	*0.0805*		*77.0*	*30-140*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30825 - EPA 3050B											
Blank (BK30825-BLK1)									Prepared: 11/13/2023 Analyzed: 11/17/2023		
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	58.0	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	ND	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BK30825-DUP1)	*Source sample: 23K0758-07 (Duplicate)								Prepared: 11/13/2023 Analyzed: 11/17/2023		
Aluminum	4640	4.39	mg/kg dry		3710				22.3	35	
Antimony	ND	2.19	"		ND					35	
Arsenic	1.37	1.32	"		2.19				46.3	35	Non-dir.
Barium	26.2	2.19	"		31.8				19.2	35	
Beryllium	ND	0.044	"		ND					35	
Cadmium	ND	0.263	"		ND					35	
Calcium	2260	4.39	"		1420				45.8	35	Non-dir.
Chromium	10.9	0.439	"		11.0				1.57	35	
Cobalt	2.93	0.351	"		3.08				5.02	35	
Copper	8.27	1.76	"		10.6				24.9	35	
Iron	7820	21.9	"		16500				71.3	35	Non-dir.
Lead	2.76	0.439	"		4.63				50.7	35	Non-dir.
Magnesium	1300	4.39	"		1180				10.0	35	
Manganese	149	0.439	"		322				73.3	35	Non-dir.
Nickel	8.08	0.874	"		9.86				19.8	35	
Potassium	494	4.39	"		489				0.971	35	
Selenium	ND	2.19	"		4.52					35	
Silver	ND	0.442	"		ND					35	
Sodium	109	43.9	"		ND					35	
Thallium	ND	2.19	"		ND					35	
Vanadium	9.01	0.874	"		19.9				75.4	35	Non-dir.
Zinc	26.1	2.18	"		26.2				0.505	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30825 - EPA 3050B											
Matrix Spike (BK30825-MS1)	*Source sample: 23K0758-07 (Matrix Spike)								Prepared: 11/13/2023 Analyzed: 11/17/2023		
Aluminum	3680	4.39	mg/kg dry	175	3710	NR	75-125	Low Bias			
Antimony	8.24	2.19	"	21.9	ND	37.6	75-125	Low Bias			
Arsenic	175	1.32	"	175	2.19	98.4	75-125				
Barium	207	2.19	"	175	31.8	100	75-125				
Beryllium	4.07	0.044	"	4.39	ND	92.7	75-125				
Cadmium	4.18	0.263	"	4.39	ND	95.3	75-125				
Calcium	1800	4.39	"	87.7	1420	441	75-125	High Bias			
Chromium	28.1	0.439	"	17.5	11.0	97.4	75-125				
Cobalt	47.5	0.351	"	43.9	3.08	101	75-125				
Copper	32.5	1.76	"	21.9	10.6	99.6	75-125				
Iron	9380	21.9	"	87.7	16500	NR	75-125	Low Bias			
Lead	45.9	0.439	"	43.9	4.63	94.1	75-125				
Magnesium	1310	4.39	"	87.7	1180	152	75-125	High Bias			
Manganese	218	0.439	"	43.9	322	NR	75-125	Low Bias			
Nickel	52.0	0.874	"	43.9	9.86	96.0	75-125				
Potassium	591	4.39	"	87.7	489	116	75-125				
Selenium	174	2.19	"	175	4.52	96.8	75-125				
Silver	1.75	0.442	"	4.39	ND	39.8	75-125	Low Bias			
Sodium	313	43.9	"	87.7	ND	356	75-125	High Bias			
Thallium	162	2.19	"	175	ND	92.5	75-125				
Vanadium	54.9	0.874	"	43.9	19.9	79.8	75-125				
Zinc	69.0	2.18	"	43.9	26.2	97.5	75-125				
Post Spike (BK30825-PS1)	*Source sample: 23K0758-07 (Post Spike)								Prepared: 11/13/2023 Analyzed: 11/17/2023		
Aluminum	44.0		ug/mL	2.00	42.3	86.0	75-125				
Antimony	0.217		"	0.250	0.002	85.8	75-125				
Arsenic	1.92		"	2.00	0.025	94.8	75-125				
Barium	2.38		"	2.00	0.363	101	75-125				
Beryllium	0.048		"	0.0500	-0.001	96.4	75-125				
Cadmium	0.043		"	0.0500	-0.002	86.5	75-125				
Calcium	17.0		"	1.00	16.1	84.8	75-125				
Chromium	0.320		"	0.200	0.126	97.1	75-125				
Cobalt	0.532		"	0.500	0.035	99.3	75-125				
Copper	0.390		"	0.250	0.121	107	75-125				
Iron	187		"	1.00	188	NR	75-125	Low Bias			
Lead	0.518		"	0.500	0.053	93.0	75-125				
Magnesium	14.3		"	1.00	13.5	87.5	75-125				
Manganese	4.14		"	0.500	3.67	93.5	75-125				
Nickel	0.608		"	0.500	0.112	99.2	75-125				
Potassium	6.57		"	1.00	5.58	99.0	75-125				
Selenium	1.94		"	2.00	0.051	94.4	75-125				
Silver	0.025		"	0.0500	-0.029	49.8	75-125	Low Bias			
Sodium	3.61		"	1.00	0.275	334	75-125	High Bias			
Thallium	1.77		"	2.00	-0.008	88.6	75-125				
Vanadium	0.715		"	0.500	0.227	97.7	75-125				
Zinc	0.781		"	0.500	0.298	96.5	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30825 - EPA 3050B											
Reference (BK30825-SRM1)								Prepared: 11/13/2023 Analyzed: 11/17/2023			
Aluminum	8200	4.17	mg/kg wet	9490		86.4	45.4-128.6				
Antimony	43.1	2.08	"	248		17.4	3-103.2				
Arsenic	128	1.25	"	163		78.3	68.7-100.6				
Barium	284	2.08	"	319		89.0	82.5-115.7				
Beryllium	93.6	0.042	"	119		78.6	77.7-109.2				
Cadmium	105	0.250	"	130		80.9	75.2-106.2				
Calcium	4520	4.17	"	5000		90.3	80.6-114.4				
Chromium	133	0.417	"	153		86.7	77.8-111.8				
Cobalt	136	0.333	"	153		88.7	79.1-109.8				
Copper	236	1.67	"	245		96.3	80.4-111				
Iron	7250	20.8	"	7540		96.2	69.8-144.6				
Lead	191	0.417	"	220		87.0	80-113.6				
Magnesium	2000	4.17	"	1980		101	85.9-129.3				
Manganese	378	0.417	"	431		87.6	79.6-114.2				
Nickel	154	0.830	"	175		88.3	76.6-108.6				
Potassium	1590	4.17	"	1570		101	80.9-131.2				
Selenium	145	2.08	"	156		93.2	80.8-118.6				
Silver	66.4	0.420	"	82.9		80.1	76.7-114.7				
Sodium	975	41.7	"	453		215	72.2-119.7	High Bias			
Thallium	77.6	2.08	"	99.4		78.0	75.8-110.7				
Vanadium	144	0.830	"	170		84.8	75.3-114.1				
Zinc	331	2.08	"	201		165	79.6-115.92	High Bias			

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31137 - EPA 7473 soil											
Blank (BK31137-BLK1)									Prepared: 11/17/2023 Analyzed: 11/18/2023		
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31137-DUP1)	*Source sample: 23K0733-01 (Duplicate)								Prepared: 11/17/2023 Analyzed: 11/18/2023		
Mercury	0.630	0.0305	mg/kg dry		0.583				7.87	35	
Matrix Spike (BK31137-MS1)	*Source sample: 23K0733-01 (Matrix Spike)								Prepared: 11/17/2023 Analyzed: 11/18/2023		
Mercury	1.09		mg/kg	0.500	0.573	103	75-125				
Reference (BK31137-SRM1)									Prepared: 11/17/2023 Analyzed: 11/18/2023		
Mercury	22.149		mg/kg	18.2		122	59.9-140.1				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31069 - EPA SW846-3060											
Blank (BK31069-BLK1)								Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK31069-DUP1)	*Source sample: 23K0733-01 (Duplicate)							Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	ND	0.509	mg/kg dry		ND					35	
Matrix Spike (BK31069-MS1)	*Source sample: 23K0733-01 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	ND	0.509	mg/kg dry	20.3	ND		75-125	Low Bias			
Matrix Spike Dup (BK31069-MSD1)	*Source sample: 23K0733-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	ND	0.509	mg/kg dry	20.3	ND		75-125	Low Bias		200	
Reference (BK31069-SRM1)								Prepared & Analyzed: 11/16/2023			
Chromium, Hexavalent	208		mg/L	227		91.7	42.3-157.7				
Batch BK31070 - Analysis Preparation Soil											
Blank (BK31070-BLK1)								Prepared & Analyzed: 11/16/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK31070-DUP1)	*Source sample: 23K0704-05 (Duplicate)							Prepared & Analyzed: 11/16/2023			
Cyanide, total	165	20.4	mg/kg dry		169				2.44	15	
Matrix Spike (BK31070-MS1)	*Source sample: 23K0704-05 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
Cyanide, total	ND	1.02	mg/kg dry	20.4	169	NR	79.6-107	Low Bias			
Matrix Spike Dup (BK31070-MSD1)	*Source sample: 23K0704-05 (Matrix Spike Dup)							Prepared & Analyzed: 11/16/2023			
Cyanide, total	ND	1.02	mg/kg dry	20.4	169	NR	79.6-107	Low Bias		200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31070 - Analysis Preparation Soil											
Reference (BK31070-SRM1)									Prepared & Analyzed: 11/16/2023		
Cyanide, total	151		ug/mL	131		116	44.4-156.5				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK30986 - % Solids Prep											
Duplicate (BK30986-DUP1)	*Source sample: 23K0756-01 (Duplicate)							Prepared & Analyzed: 11/15/2023			
% Solids	84.1	0.100	%		82.6				1.84	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K0753-01	23SP7 (0-2.5ft)	40mL Vial with Stir Bar-Cool 4° C
23K0753-02	23SP7 (12-14ft)	40mL Vial with Stir Bar-Cool 4° C
23K0753-03	23SP7 (14-18ft)	40mL Vial with Stir Bar-Cool 4° C
23K0753-04	23SP7 (27.5-30ft)	40mL Vial with Stir Bar-Cool 4° C
23K0753-05	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0753

120 Research Drive Stratford, CT 06615 132-02 89th Ave Queens, NY 11418 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 East 149th St Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- **Standard (6-9 Day)** X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Gabrielle Castro

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
~~NY ASP B Package~~ | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SB7 (0-2.5 ft)	S	11/9/23 1240	TCL+10 VOCs & TICs EPA 8260 C,	8 oz jars	2
23SB7 (12-14 ft)		1245	TCL + 20 SVOCs + TICs, Pest/PCBs	VOCs	4
23SB7 (14-18 ft)		1251	21 PFAS compounds EPA 1633, 1,4 dioxane	PFAS	1
23SB7 (27.5-30 ft)		105	EPA 8270Sim, Full TAL Metals list + Cyanide, Hexavalent Chromium		
Trip Blank	O			VOCs	2
Field Blank - PFAS	O			PFAS containers	1

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered
Lab to Filter

Samples iced/chilled at time of lab pickup? circle Yes or No

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	1210 pm 11/10/23	K Barkyork	11/10/23 1210pm	K Barkyork	11/10/23 16:38
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/10/23 16:30 / 2.4 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 11/27/2023
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K0980

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/27/2023
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K0980

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 14, 2023 and listed below. The project was identified as your project: **220293 100 E. 149th St. Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K0980-01	23SP5 (0-2.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-02	23SP5 (12.5-15 ft)	Soil	11/13/2023	11/14/2023
23K0980-03	23SP5 (15-17.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-04	23SP5 (25-27.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-05	23SP6 (0-2.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-06	23SP6 (12.5-15 ft)	Soil	11/13/2023	11/14/2023
23K0980-07	23SP6 (15-17.5 ft)	Soil	11/13/2023	11/14/2023
23K0980-08	23SP6 (22.5-25 ft)	Soil	11/13/2023	11/14/2023
23K0980-09	Trip Blank	Water	11/13/2023	11/14/2023
23K0980-10	Field Blank	Water	11/13/2023	11/14/2023
23K0980-11	PFAS Field Blank	Water	11/13/2023	11/14/2023

General Notes for York Project (SDG) No.: 23K0980

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 11/27/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	mg/kg dry	0.064	0.13	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.0037**	J	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND	QL-02	mg/kg dry	0.0064	0.013	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	QL-02, CCVE, ICVE	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0032	0.0064	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0096	0.019	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*95.9 %*		*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.7 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*113 %*		*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 14:08	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 11:47	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 11:47	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 11:47	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,PADEP-68-04440	11/22/2023 11:47	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 11:47	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,PADEP-68-04440	11/22/2023 11:47	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,PADEP-68-04440	11/22/2023 11:47	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 11:47	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 11:47	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 11:47	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 11:47	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 11:47	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 11:47	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 11:47	KH-

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	**Acenaphthylene**	**0.144**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-86-2	Acetophenone	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.188	0.377	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.129**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	**Benzaldehyde**	**0.0872**	J	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
92-87-5	Benzidine	ND		mg/kg dry	0.188	0.377	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
56-55-3	**Benzo(a)anthracene**	**0.707**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
50-32-8	**Benzo(a)pyrene**	**0.924**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
205-99-2	**Benzo(b)fluoranthene**	**0.788**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
191-24-2	**Benzo(g,h,i)perylene**	**0.749**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
207-08-9	**Benzo(k)fluoranthene**	**0.610**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-60-2	Caprolactam	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
86-74-8	Carbazole	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
218-01-9	**Chrysene**	**0.675**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
53-70-3	**Dibenzo(a,h)anthracene**	**0.148**		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0471	0.0940	2	EPA 8270D	11/21/2023 08:41	11/22/2023 11:47	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0940	0.188	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
206-44-0	**Fluoranthene**	**0.913**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
86-73-7	Fluorene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.820**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
78-59-1	Isophorone	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
91-20-3	Naphthalene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
85-01-8	**Phenanthrene**	**0.270**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-
129-00-0	**Pyrene**	**1.13**		mg/kg dry	0.0471	0.0940	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*33.8 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*35.5 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*40.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*39.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*47.4 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*41.3 %*	*24-116*

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/16/2023 23:24	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.127	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0765**	J	ug/kg dry	0.0608	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.120	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.205	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.197	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**0.911**		ug/kg dry	0.192	0.213	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.217	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.219	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.227	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.187	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.143	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.118	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.170	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.223	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.125	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.167	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.178	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.219	0.221	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.682	0.872	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.866	0.881	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.125	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.159	0.408	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.221	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0711	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.110	0.459	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.180	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.682	0.860	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.697	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.357	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.282	0.858	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.200	0.867	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.194	0.223	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.142	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 12:51	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.727	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.41	5.74	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.72	5.74	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.701	2.29	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.206	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.799	2.29	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.227	0.229	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 12:51	ER

Sample Information

Client Sample ID: **23SP5 (0-2.5 ft)** **York Sample ID:** **23K0980-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate Recoveries	**Result**		**Acceptance Range**							
	Surrogate: M3PFBS	*107 %*		*25-150*							
	Surrogate: M5PFHxA	*122 %*		*25-150*							
	Surrogate: M4PFHpA	*131 %*		*25-150*							
	Surrogate: M3PFHxS	*133 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*105 %*		*25-150*							
	Surrogate: M6PFDA	*117 %*		*25-150*							
	Surrogate: M7PFUdA	*110 %*		*25-150*							
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*92.9 %*		*25-150*							
	Surrogate: M2PFTeDA	*85.2 %*		*10-150*							
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*119 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*110 %*		*25-150*							
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*124 %*		*25-150*							
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*81.2 %*		*10-150*							
	Surrogate: d3-N-MeFOSAA	*84.8 %*		*25-150*							
	Surrogate: d5-N-EtFOSAA	*103 %*		*25-150*							
	Surrogate: M2-6:2 FTS	*103 %*		*25-200*							
	Surrogate: M2-8:2 FTS	*148 %*		*25-200*							
	Surrogate: M9PFNA	*110 %*		*25-150*							
	Surrogate: M2-4:2 FTS	*75.3 %*		*25-150*							
	Surrogate: d-N-MeFOSA	*40.2 %*		*25-150*							
	Surrogate: d-N-EtFOSA	*35.4 %*		*25-150*							
	Surrogate: M3HFPO-DA	*137 %*		*25-150*							
	Surrogate: d9-N-EtFOSE	*41.2 %*		*25-150*							
	Surrogate: d7-N-MeFOSE	*52.5 %*		*25-150*							

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 11:47	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-55-9	4,4'-DDE	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/kg dry	37.8	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53494-70-5	Endrin ketone	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	1.89	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 21:09	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.89	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.46	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	95.7	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:09	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*87.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:28	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7080**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**4.95**		mg/kg dry	1.44	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**145**		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.048	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**0.809**		mg/kg dry	0.288	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**18300**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**16.6**		mg/kg dry	0.481	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.42**		mg/kg dry	0.384	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**51.2**		mg/kg dry	1.92	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**14700**		mg/kg dry	24.0	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**309**	B	mg/kg dry	0.481	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**10000**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**233**		mg/kg dry	0.481	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**16.2**		mg/kg dry	0.958	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1300**		mg/kg dry	4.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.485	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**456**		mg/kg dry	48.1	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.40	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**22.4**		mg/kg dry	0.958	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**38.8**		mg/kg dry	2.39	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:40	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP5 (0-2.5 ft) **York Sample ID:** 23K0980-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:15 am	11/14/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.227**		mg/kg dry	0.0346	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.577	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**16.6**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.577	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.7**		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP5 (12.5-15 ft)** **York Sample ID:** **23K0980-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**1.2**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**3.9**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	8.2	16	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP5 (12.5-15 ft)** **York Sample ID:** **23K0980-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE, IS-HI	mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**64**	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**8.2**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**13**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**100**		mg/kg dry	8.1	16	2000	EPA 8260D	11/20/2023 09:00	11/20/2023 15:58	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**22**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**43**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**3.1**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**6.9**		mg/kg dry	0.82	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**7.0**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**6.8**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.50**	J	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**2.0**		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	IS-HI	mg/kg dry	0.41	0.82	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	**Xylenes, Total**	**10**		mg/kg dry	1.2	2.5	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
	Surrogate Recoveries	**Result**		**Acceptance Range**							
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*51.2 %*	S-04, S-08, IS-HI	*77-125*							
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.3 %*		*85-120*							
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*138 %*	S-04, S-08	*76-130*							

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene butenyl isomer**	**110**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene diethyl isomer**	**28**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene ethyl dimethyl isomer**	**89**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene ethyl isomer**	**27**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene ethyl methyl isomer**	**49**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
050704-01-3	**benzene isomer**	**19**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Benzene methyl isomer**	**19**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Heptane methyl isomer**	**22**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Indene dihydro dimethyl isomer**	**32**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Indene dihydro methyl isomer**	**57**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			
NA	**Phenyl butene isomer**	**61**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:00	SKF
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	**1,1-Biphenyl**	**0.0674**	J	mg/kg dry	0.0485	0.0969	2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,PADEP-68-04440	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,PADEP-68-04440	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,PADEP-68-04440	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	**2-Methylnaphthalene**	**12.6**		mg/kg dry	0.243	0.484	10	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 15:51 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.296**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.194	0.388	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.234**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.194	0.388	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.559**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.501**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.434**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.293**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.379**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	**Chrysene**	**0.561**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.0759**	J	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	**Dibenzofuran**	**0.0712**	J	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0969	0.193	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
206-44-0	**Fluoranthene**	**1.29**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.239**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.355**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.243	0.484	10	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 15:51	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: **23SP5 (12.5-15 ft)** **York Sample ID:** **23K0980-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
85-01-8	**Phenanthrene**	**1.10**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-
108-95-2	Phenol	ND		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
129-00-0	**Pyrene**	**1.59**		mg/kg dry	0.0485	0.0969	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH-

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.7 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*59.6 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*%*	S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*50.2 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*73.5 %*		*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.0 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications:	11/16/2023 08:36	11/16/2023 23:41 NELAC-NY10854	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*61.1 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.130	0.207	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 13:07 NELAC-NH2097 ,NJDEP-NY037	ER
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**0.0928**	J	ug/kg dry	0.0620	0.234	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 13:07 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ER

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.123	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.209	0.214	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.201	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.195	0.218	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.221	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.223	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.191	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.146	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.120	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.173	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.227	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.127	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.171	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.181	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.223	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.696	0.889	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.883	0.898	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.127	0.936	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.163	0.416	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.226	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0725	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.112	0.468	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.184	0.220	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.696	0.877	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.711	0.936	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.364	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.288	0.875	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.204	0.884	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.198	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.145	0.225	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:07	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.742	1.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.45	5.85	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.75	5.85	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.715	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.211	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.815	2.34	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:07	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*99.6 %*	*25-150*
Surrogate: M5PFHxA	*111 %*	*25-150*
Surrogate: M4PFHpA	*118 %*	*25-150*
Surrogate: M3PFHxS	*124 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*102 %*	*25-150*
Surrogate: M6PFDA	*117 %*	*25-150*
Surrogate: M7PFUdA	*117 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*104 %*	*25-150*
Surrogate: M2PFTeDA	*80.3 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*117 %*	*25-150*

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*102 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*117 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*81.6 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*82.5 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*102 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*60.4 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*107 %*			*25-200*						
	Surrogate: M9PFNA	*102 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*31.9 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*48.0 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*48.4 %*			*25-150*						
	Surrogate: M3HFPO-DA	*134 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*51.3 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*66.9 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.4**	**5.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 4.8**	**1.90**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 4.9**	**3.38**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.0**	**4.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.2 (01)**	**7.73**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.2 (02)**	**4.44**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.5 (01)**	**1.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.5 (02)**	**3.61**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 5.6**	**3.75**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-
NA	**Benzene Isomer RT 6.2**	**2.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:17	KH-

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclohexane Isomer RT 4.0**	**1.76**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Cyclohexane Isomer RT 4.9**	**1.93**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Diethyl Benzene Isomer RT 5.0**	**4.91**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Dihydro Dimethyl 1H-Indene ...**	**1.94**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Methyl Propyl Benzene Isome...**	**2.27**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Tetramethyl Benzene Isomer ...**	**2.44**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.6**	**2.83**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 3.7**	**2.46**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 4.2**	**1.82**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 5.1**	**2.15**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 6.6**	**2.46**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 7.1**	**5.07**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown PAH RT 11.4**	**3.23**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			
NA	**Unknown PAH RT 12.2**	**2.23**	J	mg/kg dry			2	EPA 8270D	11/21/2023 08:41	11/22/2023 12:17	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	39.1	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.95	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.77	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	98.9	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:27	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*82.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*123 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0197	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:42	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*79.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7600**		mg/kg dry	4.95	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.48	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**12.7**		mg/kg dry	1.49	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**170**		mg/kg dry	2.47	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	**Beryllium**	**0.091**		mg/kg dry	0.050	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND		mg/kg dry	0.297	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**9040**		mg/kg dry	4.95	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**20.1**		mg/kg dry	0.496	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.57**		mg/kg dry	0.396	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**39.3**		mg/kg dry	1.98	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**10100**		mg/kg dry	24.8	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**350**	B	mg/kg dry	0.496	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**1660**		mg/kg dry	4.96	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**162**		mg/kg dry	0.496	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**21.8**		mg/kg dry	0.986	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1020**		mg/kg dry	4.96	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**2.89**		mg/kg dry	2.48	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.499	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**865**		mg/kg dry	49.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.48	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**27.2**		mg/kg dry	0.986	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**48.2**		mg/kg dry	2.47	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:43	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**63.6**		mg/kg dry	0.0357	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.594	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**20.1**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Sample Information

Client Sample ID: 23SP5 (12.5-15 ft) **York Sample ID:** 23K0980-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:30 am	11/14/2023

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.594	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**84.1**		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
95-63-6	**1,2,4-Trimethylbenzene**	**1.5**		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP5 (15-17.5 ft)** **York Sample ID:** **23K0980-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**1.4**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	5.2	10	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE, IS-HI	mg/kg dry	0.52	1.0	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	IS-HI	mg/kg dry	0.52	1.0	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**2.4**	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**23**	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**2.0**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**3.6**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**81**		mg/kg dry	1.3	2.6	500	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 15:31	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND	IS-HI	mg/kg dry	0.52	1.0	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**4.8**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**9.5**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**0.65**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**2.4**		mg/kg dry	0.52	1.0	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**1.5**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
135-98-8	**sec-Butylbenzene**	**1.8**		mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.26	0.52	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND		mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND	IS-HI	mg/kg dry	0.26	0.52	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**3.0**		mg/kg dry	0.78	1.6	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*73.1 %*	IS-HI, S-04, S-08	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.9 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*124 %*		*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyl dimethyl isomer**	**20**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:			
NA	**Benzene ethyl isomer**	**7.2**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:			
NA	**Benzene ethyl methyl isomer**	**9.6**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:			
050704-01-3	**benzene isomer**	**7.3**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:			
NA	**Cyclohexane dimethyl cis is...**	**8.3**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:27	SKF
								Certifications:			

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Dimethylindene-dihydro isomer**	**15**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Heptane methyl isomer (01)**	**12**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Heptane methyl isomer (02)**	**7.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Hexane methyl isomer (01)**	**6.8**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Hexane methyl isomer (02)**	**8.2**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Indane methyl isomer**	**15**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Indene dihydro dimethyl isomer**	**8.4**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**Indene dihydro methyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF
NA	**methylOctane isomer**	**8.0**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:27	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 08:41	11/22/2023 12:48	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 08:41	11/22/2023 12:48	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 08:41	11/22/2023 12:48	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/21/2023 08:41	11/22/2023 12:48	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 08:41	11/22/2023 12:48	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/21/2023 08:41	11/22/2023 12:48	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/21/2023 08:41	11/22/2023 12:48	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 08:41	11/22/2023 12:48	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 08:41	11/22/2023 12:48	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 08:41	11/22/2023 12:48	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 08:41	11/22/2023 12:48	KH-

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**6.92**		mg/kg dry	0.149	0.298	5	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 16:22	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.211**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-53-3	Aniline	ND		mg/kg dry	0.239	0.477	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
120-12-7	**Anthracene**	**0.179**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
1912-24-9	Atrazine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
92-87-5	Benzidine	ND		mg/kg dry	0.239	0.477	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/22/2023 12:48	KH-
56-55-3	**Benzo(a)anthracene**	**0.572**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
50-32-8	**Benzo(a)pyrene**	**0.546**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
205-99-2	**Benzo(b)fluoranthene**	**0.444**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
191-24-2	**Benzo(g,h,i)perylene**	**0.329**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
207-08-9	**Benzo(k)fluoranthene**	**0.380**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
65-85-0	Benzoic acid	ND	CCVE, CAL-E	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
105-60-2	Caprolactam	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/22/2023 12:48	KH-
86-74-8	Carbazole	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
218-01-9	**Chrysene**	**0.531**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
53-70-3	**Dibenzo(a,h)anthracene**	**0.0800**	J	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/22/2023 12:48	KH-
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 12:48	KH-

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.119	0.238	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
206-44-0	**Fluoranthene**	**1.25**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.166**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.378**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**6.96**		mg/kg dry	0.149	0.298	5	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 16:22	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.825**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**1.41**		mg/kg dry	0.0597	0.119	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*68.6 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*62.8 %*	*23-114*

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*%*	S-08		*22-108*						
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*53.8 %*			*21-113*						
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*76.3 %*			*19-110*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*55.4 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/16/2023 23:59	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*49.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.159	0.254	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0760	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.151	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.257	0.263	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.247	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.240	0.267	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.271	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.274	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.284	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.234	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.179	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.148	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.212	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.278	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.156	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.209	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.222	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.274	0.277	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.854	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.08	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.156	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.199	0.511	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.277	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0890	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.138	0.574	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.225	0.270	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.854	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.872	1.15	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.446	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.353	1.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.250	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.242	0.278	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.178	0.275	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 13:55	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.910	1.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.01	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.15	7.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.877	2.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.258	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.00	2.87	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.284	0.287	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 13:55	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*120 %*	*25-150*
Surrogate: M5PFHxA	*134 %*	*25-150*
Surrogate: M4PFHpA	*132 %*	*25-150*
Surrogate: M3PFHxS	*137 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*110 %*	*25-150*
Surrogate: M6PFDA	*143 %*	*25-150*
Surrogate: M7PFUdA	*127 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*117 %*	*25-150*
Surrogate: M2PFTeDA	*98.9 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*130 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*116 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*136 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*92.3 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*85.5 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*103 %*	*25-150*
Surrogate: M2-6:2 FTS	*83.5 %*	*25-200*
Surrogate: M2-8:2 FTS	*110 %*	*25-200*
Surrogate: M9PFNA	*129 %*	*25-150*
Surrogate: M2-4:2 FTS	*52.8 %*	*25-150*
Surrogate: d-N-MeFOSA	*64.7 %*	*25-150*
Surrogate: d-N-EtFOSA	*60.6 %*	*25-150*
Surrogate: M3HFPO-DA	*143 %*	*25-150*
Surrogate: d9-N-EtFOSE	*62.4 %*	*25-150*
Surrogate: d7-N-MeFOSE	*81.7 %*	*25-150*

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.8**	**2.73**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 4.9**	**3.90**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.2 (01)**	**8.94**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.2 (02)**	**4.28**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.5 (01)**	**2.18**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.5 (02)**	**4.87**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Benzene Isomer RT 5.6**	**5.57**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Cyclohexane Isomer RT 4.0**	**2.41**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Diethyl Benzene Isomer RT 5.0**	**5.26**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Dihydro Dimethyl 1H-Indene ...**	**2.40**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**dimethyl Naphthalene Isomer...**	**3.32**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Methyl Octane Isomer RT 3.6**	**3.96**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Methyl Propyl Benzene Isome...**	**2.55**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Propyl Benzene RT 4.3**	**7.08**	N, J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Tetramethyl Benzene Isomer ...**	**3.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Unknown Hydrocarbon RT 3.7**	**3.46**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Unknown Hydrocarbon RT 5.1**	**2.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Unknown PAH RT 11.4**	**2.49**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Unknown RT 4.2**	**2.49**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-
NA	**Unknown RT 5.0**	**5.61**	J	mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 12:48	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **23SP5 (15-17.5 ft)** **York Sample ID:** **23K0980-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	47.6	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.38	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	11.9	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	120	5	EPA 8081B	11/20/2023 10:18	11/21/2023 21:45	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*107 %*	*30-150*

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0240	1	EPA 8082A	11/20/2023 10:18	11/21/2023 09:56	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*72.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*81.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6460**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.60**		mg/kg dry	1.82	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**124**		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.061	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.363	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**36900**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**44.2**		mg/kg dry	0.605	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.75**		mg/kg dry	0.484	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**41.3**		mg/kg dry	2.42	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**12400**		mg/kg dry	30.2	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**226**	B	mg/kg dry	0.605	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**8890**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**252**		mg/kg dry	0.605	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**39.1**		mg/kg dry	1.21	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1330**		mg/kg dry	6.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.610	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**819**		mg/kg dry	60.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.02	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**25.9**		mg/kg dry	1.21	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**107**		mg/kg dry	3.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:45	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.16**		mg/kg dry	0.0436	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.726	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23SP5 (15-17.5 ft) **York Sample ID:** 23K0980-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 9:50 am	11/14/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	44.2		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	2.54		mg/kg dry	0.726	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	68.9		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D	11/19/2023 08:00	11/19/2023 15:01	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	0.049	0.098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
67-64-1	**Acetone**	**0.011**	ICVE	mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-02-8	Acrolein	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
71-43-2	Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-25-2	Bromoform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
74-83-9	Bromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**0.0031**	J	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**0.0050**		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0049	0.0098	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0024	0.0049	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0073	0.015	1	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.9 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.5 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 15:01	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,PADEP-68-04440	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,PADEP-68-04440	KH-
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,PADEP-68-04440	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-
91-94-1	3,3-Dichlorobenzidine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH-
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH-

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	Acenaphthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.201	0.401	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1912-24-9	Atrazine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		mg/kg dry	0.201	0.401	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-32-8	Benzo(a)pyrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
205-99-2	Benzo(b)fluoranthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
191-24-2	Benzo(g,h,i)perylene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND	CAL-E, CCVE	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
218-01-9	Chrysene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.100	0.200	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH-
206-44-0	Fluoranthene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-73-7	Fluorene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	Indeno(1,2,3-cd)pyrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND	CCVE	mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	Phenanthrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-95-2	Phenol	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	Pyrene	ND		mg/kg dry	0.0502	0.100	2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*65.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*65.0 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*64.2 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*71.4 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*98.3 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*84.4 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0192	1	EPA 8270D SIM Certifications:	11/16/2023 08:36	11/17/2023 00:16	KH NELAC-NY10854

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.135	0.215	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 14:11	ER NELAC-NH2097 ,NJDEP-NY037
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0644	0.243	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 14:11	ER NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.128	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.217	0.222	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.209	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.203	0.226	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.230	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.232	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.240	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.198	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.152	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.125	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.180	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.236	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.132	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.177	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.188	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.232	0.234	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.723	0.923	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.917	0.933	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.267**	J	ug/kg dry	0.132	0.972	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.169	0.432	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.234	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0753	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.117	0.486	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.191	0.228	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.723	0.911	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.738	0.972	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.378	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.299	0.909	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.211	0.918	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.205	0.236	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.151	0.233	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:11	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.770	1.21	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.55	6.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.82	6.07	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.742	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.219	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.847	2.43	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.240	0.243	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:11	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.3 %*	*25-150*
Surrogate: M5PFHxA	*87.1 %*	*25-150*
Surrogate: M4PFHpA	*105 %*	*25-150*
Surrogate: M3PFHxS	*90.7 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*84.0 %*	*25-150*
Surrogate: M6PFDA	*96.2 %*	*25-150*
Surrogate: M7PFUdA	*96.7 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*83.8 %*	*25-150*
Surrogate: M2PFTeDA	*70.1 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.37 %*	*25-150*

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*80.3 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*8.07 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*58.9 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*53.0 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*64.4 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*44.8 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*48.6 %*			*25-200*						
	Surrogate: M9PFNA	*89.7 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*51.7 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*46.7 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*43.6 %*			*25-150*						
	Surrogate: M3HFPO-DA	*100 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*33.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*49.3 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		mg/kg dry			2	EPA 8270D Certifications:	11/21/2023 08:41	11/22/2023 13:18	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
309-00-2	Aldrin	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
319-84-6	alpha-BHC	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ
319-85-7	beta-BHC	ND		ug/kg dry	1.98	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:03	BCJ

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/kg dry	39.5	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.98	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	9.88	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	100	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:03	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0200	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:10	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*88.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**10400**		mg/kg dry	5.09	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.55	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.19**		mg/kg dry	1.53	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**55.2**		mg/kg dry	2.54	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.051	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.305	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**2300**		mg/kg dry	5.09	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**34.1**		mg/kg dry	0.510	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**6.77**		mg/kg dry	0.407	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**19.8**		mg/kg dry	2.04	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**18700**		mg/kg dry	25.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**7.27**	B	mg/kg dry	0.510	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**5710**		mg/kg dry	5.10	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**111**		mg/kg dry	0.510	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**18.4**		mg/kg dry	1.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**2640**		mg/kg dry	5.10	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.09**		mg/kg dry	2.55	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.513	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	50.9	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.55	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**35.1**		mg/kg dry	1.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**84.5**		mg/kg dry	2.54	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:47	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0367	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**1.76**		mg/kg dry	0.611	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**32.3**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP5 (25-27.5 ft) **York Sample ID:** 23K0980-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 10:00 am	11/14/2023

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.611	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**81.8**		%	0.100	1	SM 2540G	11/21/2023 08:24	11/21/2023 15:55	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D	11/20/2023 09:00	11/20/2023 14:35	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	mg/kg dry	0.051	0.10	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	ICVE, QL-02, CCVE	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**0.0088**	J, ICVE	mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND	QL-02	mg/kg dry	0.0051	0.010	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SKF
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
108-88-3	Toluene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723	SKF
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0025	0.0051	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0076	0.015	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 14:35 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SKF

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.8 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*111 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 14:35	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,PADEP-68-04440	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,PADEP-68-04440	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,PADEP-68-04440	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0455**	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.145**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.178	0.356	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.557**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.680**	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.844**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.525**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.257**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
86-74-8	**Carbazole**	**0.0469**	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
218-01-9	**Chrysene**	**0.550**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.120**	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
122-39-4	* Diphenylamine	ND		mg/kg dry	0.0889	0.178	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57	KH
206-44-0	**Fluoranthene**	**1.01**		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
86-73-7	**Fluorene**	**0.0455**	J	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.610**	CCVE	mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 18:57 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.574**		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.950**		mg/kg dry	0.0446	0.0889	2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*46.0 %*	*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*48.3 %*	*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*53.1 %*	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*51.0 %*	*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*55.2 %*	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*57.0 %*	*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0194	1	EPA 8270D SIM	11/16/2023 08:36	11/17/2023 00:51	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*53.0 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.120	0.192	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 14:27	ER
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0573	0.216	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 14:27	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.114	0.216	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 14:27	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.194	0.198	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.186	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.181	0.201	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.205	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.207	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.214	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.176	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.135	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.111	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.160	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.210	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.118	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.158	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.168	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.207	0.209	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.644	0.822	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.817	0.831	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.118	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.150	0.385	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.209	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0671	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.104	0.433	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.170	0.203	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.644	0.812	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.658	0.866	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.337	0.818	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.266	0.809	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.188	0.818	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.183	0.210	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.134	0.208	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:27	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.686	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.27	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.62	5.41	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.661	2.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.195	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.754	2.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.214	0.216	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:27	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*69.2 %*	*25-150*
Surrogate: M5PFHxA	*92.4 %*	*25-150*
Surrogate: M4PFHpA	*119 %*	*25-150*
Surrogate: M3PFHxS	*127 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*107 %*	*25-150*
Surrogate: M6PFDA	*118 %*	*25-150*
Surrogate: M7PFUdA	*114 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*108 %*	*25-150*
Surrogate: M2PFTeDA	*87.2 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.44 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*105 %*	*25-150*

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*7.31 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*78.1 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*75.1 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*93.7 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*80.4 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*116 %*			*25-200*						
	Surrogate: M9PFNA	*126 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*59.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*47.2 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*44.8 %*			*25-150*						
	Surrogate: M3HFPO-DA	*96.3 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*44.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*62.3 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 11.8**	**0.879**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:			
NA	**Unknown RT 15.9**	**0.929**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:			
NA	**Unknown RT 7.6**	**1.71**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 18:57	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	**4,4'-DDT**	**2.74**		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
309-00-2	Aldrin	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	35.1	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.75	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	8.77	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	88.8	5	EPA 8081B	11/20/2023 10:18	11/21/2023 14:49	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*75.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*64.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND	PCB-I	mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0177	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:23	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*77.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7070**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.67**		mg/kg dry	1.36	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**157**		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.046	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	**Cadmium**	**1.21**		mg/kg dry	0.271	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**24900**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**17.9**		mg/kg dry	0.452	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**5.77**		mg/kg dry	0.361	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**57.7**		mg/kg dry	1.81	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**14700**		mg/kg dry	22.6	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**318**	B	mg/kg dry	0.452	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**9050**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**216**		mg/kg dry	0.452	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**15.0**		mg/kg dry	0.900	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1340**		mg/kg dry	4.52	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.455	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**453**		mg/kg dry	45.2	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	2.26	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.1**		mg/kg dry	0.900	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**42.0**		mg/kg dry	2.25	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:50	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.281**		mg/kg dry	0.0325	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	**Chromium, Hexavalent**	**2.69**		mg/kg dry	0.542	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.2**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Sample Information

Client Sample ID: 23SP6 (0-2.5 ft) **York Sample ID:** 23K0980-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:20 am	11/14/2023

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.542	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.2**		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	7.2	14	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND	QL-02, CCVE, ICVE	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**15**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
74-95-3	Dibromomethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**2.2**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**42**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**4.5**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	**n-Propylbenzene**	**6.0**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.72	1.4	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	**p-Isopropyltoluene**	**1.2**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	**sec-Butylbenzene**	**1.6**		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723
79-01-6	Trichloroethylene	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.36	0.72	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		mg/kg dry	1.1	2.2	100	EPA 8260D Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*84.8 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.2 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*123 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene butenyl isomer**	**31**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Benzene ethyl isomer**	**11**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
050704-01-3	**benzene isomer**	**8.9**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Benzene methyl isomer**	**24**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Bicyclo octane isomer**	**23**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF
NA	**Cyclohexane dimethyl cis is...**	**13**	J	mg/kg dry			100	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 21:55	SKF

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Heptane methyl isomer**	**13**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:			
NA	**Hexane methyl isomer**	**8.6**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:			
NA	**Indane methyl isomer**	**16**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:			
NA	**Indene dihydro dimethyl isomer (01)**	**14**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:			
NA	**Indene dihydro dimethyl isomer (02)**	**8.8**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:			
NA	**Indene dihydro methyl isomer**	**14**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:			
NA	**Octane methyl isomer**	**8.1**	J	mg/kg dry			100	EPA 8260C	11/19/2023 08:00	11/19/2023 21:55	SKF
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.105	0.210	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,PADEP-68-04440		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.105	0.210	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	**2-Methylnaphthalene**	**0.198**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.0993**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.211	0.421	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	Anthracene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1912-24-9	Atrazine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.211	0.421	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	11/21/2023 19:28	KH
56-55-3	**Benzo(a)anthracene**	**0.0833**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:28	KH
50-32-8	**Benzo(a)pyrene**	**0.156**	CCVE	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:28	KH
205-99-2	**Benzo(b)fluoranthene**	**0.182**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:28	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.188**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:28	KH
207-08-9	**Benzo(k)fluoranthene**	**0.0673**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:28	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/21/2023 19:28	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
218-01-9	**Chrysene**	**0.0791**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:28	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.0631**	J	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/21/2023 19:28	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 19:28	KH

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.105	0.210	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
206-44-0	**Fluoranthene**	**0.127**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.183**	CCVE	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
85-01-8	**Phenanthrene**	**0.118**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
108-95-2	Phenol	ND		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	**Pyrene**	**0.156**		mg/kg dry	0.0528	0.105	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*84.6 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*92.5 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*%*	S-04, S-08	*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.6 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*133 %*	S-08	*19-110*

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*72.6 %*			*24-116*						

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications: NELAC-NY10854	11/16/2023 08:36	11/17/2023 01:08	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.4 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.142	0.227	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0680	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.135	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.230	0.235	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.221	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.214	0.239	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.243	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.245	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.254	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.209	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.160	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.132	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.190	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.249	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER

Sample Information

Client Sample ID: **23SP6 (12.5-15 ft)** **York Sample ID:** **23K0980-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.140	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.187	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.199	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.245	0.248	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.764	0.976	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	0.969	0.986	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.141**	J	ug/kg dry	0.140	1.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.178	0.457	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.248	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0796	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.123	0.513	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.202	0.241	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.764	0.963	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.780	1.03	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.399	0.970	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.316	0.960	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.223	0.970	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.217	0.249	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.159	0.246	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 14:44	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.814	1.28	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	2.69	6.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	1.93	6.42	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.784	2.57	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER

Sample Information

Client Sample ID: **23SP6 (12.5-15 ft)** **York Sample ID:** **23K0980-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.231	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	0.895	2.57	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.254	0.257	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 14:44	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*87.7 %*	*25-150*
Surrogate: M5PFHxA	*113 %*	*25-150*
Surrogate: M4PFHpA	*130 %*	*25-150*
Surrogate: M3PFHxS	*136 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*112 %*	*25-150*
Surrogate: M6PFDA	*143 %*	*25-150*
Surrogate: M7PFUdA	*126 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*105 %*	*25-150*
Surrogate: M2PFTeDA	*100 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.69 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*130 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*7.37 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*95.4 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*83.5 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*100 %*	*25-150*
Surrogate: M2-6:2 FTS	*69.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*87.8 %*	*25-200*
Surrogate: M9PFNA	*150 %*	*25-150*
Surrogate: M2-4:2 FTS	*50.3 %*	*25-150*
Surrogate: d-N-MeFOSA	*61.8 %*	*25-150*
Surrogate: d-N-EtFOSA	*61.7 %*	*25-150*
Surrogate: M3HFPO-DA	*128 %*	*25-150*
Surrogate: d9-N-EtFOSE	*57.9 %*	*25-150*
Surrogate: d7-N-MeFOSE	*75.3 %*	*25-150*

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds. **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.6**	**2.45**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.4 (01)**	**2.86**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.4 (02)**	**6.21**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.5**	**5.67**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.7 (01)**	**12.4**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.7 (02)**	**5.43**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 5.9**	**1.54**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 6.0**	**1.94**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Benzene Isomer RT 6.1**	**2.36**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Cyclohexane Isomer RT 4.5**	**3.42**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Cyclohexane Isomer RT 5.4**	**2.68**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Cyclohexene Isomer RT 5.0**	**1.64**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Sulfurous Acid Isomer RT 5.0**	**1.43**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 3.8**	**1.53**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.1**	**3.18**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.6**	**2.29**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.8 (01)**	**5.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 4.8 (02)**	**2.25**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 5.3**	**2.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown Hydrocarbon RT 7.7**	**1.39**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH
NA	**Unknown PAH RT 13.0**	**1.79**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:28	KH

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown RT 12.1**	**7.35**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			
NA	**Unknown RT 4.8**	**1.94**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			
NA	**Unknown RT 5.5**	**6.40**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			
NA	**Unknown RT 5.8**	**3.17**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:28	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	42.5	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.12	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:20	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.12	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-43-5	Methoxychlor	ND		ug/kg dry	10.6	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
8001-35-2	Toxaphene	ND		ug/kg dry	107	5	EPA 8081B Certifications:	11/20/2023 10:18	11/21/2023 22:20	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.8 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.7 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0214	1	EPA 8082A Certifications:	11/20/2023 10:18	11/21/2023 10:37	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP6 (12.5-15 ft)** **York Sample ID:** **23K0980-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

7429-90-5	**Aluminum**	**11200**		mg/kg dry	5.38	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.73**		mg/kg dry	1.61	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**143**		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.054	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.323	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**9230**		mg/kg dry	5.38	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**22.3**		mg/kg dry	0.539	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**9.33**		mg/kg dry	0.430	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**34.8**		mg/kg dry	2.15	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**17400**		mg/kg dry	26.9	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**335**	B	mg/kg dry	0.539	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**4600**		mg/kg dry	5.39	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**278**		mg/kg dry	0.539	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.4**		mg/kg dry	1.07	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**4340**		mg/kg dry	5.39	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**3.04**		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.542	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	Sodium	ND		mg/kg dry	53.8	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		mg/kg dry	2.69	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**30.4**		mg/kg dry	1.07	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**53.4**		mg/kg dry	2.68	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:52	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP6 (12.5-15 ft) **York Sample ID:** 23K0980-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:45 am	11/14/2023

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**2.13**		mg/kg dry	0.0387	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.646	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**22.3**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.646	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**77.4**		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **23SP6 (15-17.5 ft)** **York Sample ID:** **23K0980-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005		
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**0.58**	J	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	mg/kg dry	11	23	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **23SP6 (15-17.5 ft)** **York Sample ID:** **23K0980-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	mg/kg dry	1.1	2.3	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		mg/kg dry	1.1	2.3	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	**Benzene**	**2.6**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
74-97-5	Bromochloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND	CCVE	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**34**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**6.6**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**46**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		mg/kg dry	1.1	2.3	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**9.6**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**15**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	o-Xylene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**2.8**	QL-02	mg/kg dry	1.1	2.3	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**0.84**	J	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**5.5**		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**2.1**	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723		
79-01-6	Trichloroethylene	ND	QL-02	mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.56	1.1	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	**Xylenes, Total**	**2.8**	J	mg/kg dry	1.7	3.4	100	EPA 8260D	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*88.2 %*		*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*90.0 %*		*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*139 %*	S-04, S-08	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**16**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene ethenyl dimethyl is...**	**37**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene ethyl dimethyl isomer**	**43**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
050704-01-3	**benzene isomer**	**30**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene methyl isomer (01)**	**15**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Benzene methyl isomer (02)**	**15**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Cyclohexane dimethyl cis is...**	**62**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Cyclopentane trimethyl isomer**	**17**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Heptane methyl isomer**	**37**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Hexane methyl isomer**	**16**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Indene dihydro dimethyl isomer**	**18**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			
NA	**Indene dihydro methyl isomer**	**21**	J	mg/kg dry			100	EPA 8260C	11/20/2023 09:00	11/20/2023 15:03	SKF
								Certifications:			

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D	11/20/2023 08:52	11/21/2023 19:59	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,PADEP-68-04440	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,PADEP-68-04440	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,PADEP-68-04440	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
83-32-9	Acenaphthene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
98-86-2	Acetophenone	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
62-53-3	Aniline	ND		mg/kg dry	0.262	0.525	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
120-12-7	Anthracene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
1912-24-9	Atrazine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.262	0.525	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440	KH
56-55-3	Benzo(a)anthracene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
50-32-8	**Benzo(a)pyrene**	**0.115**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
205-99-2	**Benzo(b)fluoranthene**	**0.126**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
191-24-2	**Benzo(g,h,i)perylene**	**0.115**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
207-08-9	Benzo(k)fluoranthene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65-85-0	Benzoic acid	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-60-2	Caprolactam	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
86-74-8	Carbazole	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
218-01-9	Chrysene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
53-70-3	Dibenzo(a,h)anthracene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
122-39-4	* Diphenylamine	ND		mg/kg dry	0.131	0.262	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
206-44-0	**Fluoranthene**	**0.0942**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
86-73-7	Fluorene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.142**	CCVE	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
78-59-1	Isophorone	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-20-3	Naphthalene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
85-01-8	Phenanthrene	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-95-2	Phenol	ND		mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
129-00-0	**Pyrene**	**0.111**	J	mg/kg dry	0.0657	0.131	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*88.2 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*88.5 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*98.1 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*55.3 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*119 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*59.4 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM Certifications:	11/16/2023 08:36	11/17/2023 01:26 NELAC-NY10854	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*65.7 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.176	0.281	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 15:00 NELAC-NH2097 ,NJDEP-NY037	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0840	0.317	1	EPA 1633 Draft 3 Certifications:	11/20/2023 12:52	11/22/2023 15:00 NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	ER

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.166	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.284	0.290	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.273	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.265	0.295	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.300	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.303	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.314	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.258	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.198	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.163	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.235	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.308	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.173	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.231	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.246	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.303	0.306	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.943	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.20	1.22	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ug/kg dry	0.173	1.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.220	0.564	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.306	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0983	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.152	0.634	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.249	0.298	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.943	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.964	1.27	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.493	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.390	1.19	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.276	1.20	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.268	0.308	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.197	0.304	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:00	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	1.01	1.59	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.33	7.93	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.38	7.93	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.969	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.285	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.10	3.17	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.314	0.317	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:00	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*78.4 %*	*25-150*
Surrogate: M5PFHxA	*112 %*	*25-150*
Surrogate: M4PFHpA	*124 %*	*25-150*
Surrogate: M3PFHxS	*129 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*113 %*	*25-150*
Surrogate: M6PFDA	*138 %*	*25-150*
Surrogate: M7PFUdA	*127 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*108 %*	*25-150*
Surrogate: M2PFTeDA	*88.8 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.39 %*	*25-150*

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*124 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*7.23 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*83.0 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*79.0 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*91.5 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*73.2 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*94.5 %*			*25-200*						
	Surrogate: M9PFNA	*119 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*63.4 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*55.0 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*50.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*126 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*55.4 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*69.0 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.4**	**4.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Benzene Isomer RT 5.8**	**2.68**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Benzene Isomer RT 6.0**	**1.85**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Benzene Isomer RT 6.1**	**1.60**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Cyclohexane Isomer RT 3.4**	**1.83**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Cyclohexane Isomer RT 3.9**	**1.75**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Cyclohexene Isomer RT 5.0**	**1.47**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Trimethyl Cyclohexane Isome...**	**1.52**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 3.8 (01)**	**2.07**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 3.8 (02)**	**2.22**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Unknown Hydrocarbon RT 4.1**	**2.45**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.5**	**1.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.6**	**3.28**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.8 (01)**	**2.39**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.8 (02)**	**4.56**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 4.8 (03)**	**1.74**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 5.3**	**1.62**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown Hydrocarbon RT 5.5**	**2.03**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 12.1**	**4.16**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 4.3**	**1.89**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 4.5**	**5.12**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 4.6**	**3.15**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 5.0**	**1.63**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 5.1**	**1.50**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH
NA	**Unknown RT 5.5**	**3.72**	J	mg/kg dry			2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 19:59	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:38	BCJ
72-55-9	4,4'-DDE	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:38	BCJ
50-29-3	4,4'-DDT	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:38	BCJ
309-00-2	Aldrin	ND		ug/kg dry	2.63	5	EPA 8081B Certifications:	11/20/2023 10:18 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:38	BCJ

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-84-6	alpha-BHC	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	52.7	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.63	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	13.2	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	133	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:38	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*97.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0266	1	EPA 8082A	11/20/2023 10:18	11/21/2023 10:51	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*96.0 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7700**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	3.35	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**10.2**		mg/kg dry	2.01	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**178**		mg/kg dry	3.34	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.068	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.402	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**5380**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**15.4**		mg/kg dry	0.670	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.74**		mg/kg dry	0.535	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**47.1**		mg/kg dry	2.68	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**11800**		mg/kg dry	33.5	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**256**	B	mg/kg dry	0.670	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**1170**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**162**		mg/kg dry	0.670	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**17.1**		mg/kg dry	1.33	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**1460**		mg/kg dry	6.70	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	Selenium	ND		mg/kg dry	3.35	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-22-4	Silver	ND		mg/kg dry	0.675	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**398**		mg/kg dry	67.0	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.35	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**26.2**		mg/kg dry	1.33	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**36.2**		mg/kg dry	3.34	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:54	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**1.37**		mg/kg dry	0.0482	1	EPA 7473	11/19/2023 10:09	11/19/2023 15:38	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.804	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP6 (15-17.5 ft) **York Sample ID:** 23K0980-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 11:50 am	11/14/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**15.4**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Cyanide, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.804	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**62.2**		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005	11/19/2023 20:32	SKF
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/19/2023 20:32	SKF
95-63-6	1,2,4-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
96-12-8	1,2-Dibromo-3-chloropropane	ND	CCVE	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
106-93-4	1,2-Dibromoethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
107-06-2	1,2-Dichloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
78-87-5	1,2-Dichloropropane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
108-67-8	1,3,5-Trimethylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
123-91-1	1,4-Dioxane	ND	ICVE	mg/kg dry	0.059	0.12	1	EPA 8260D Certifications:	11/19/2023 08:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/19/2023 20:32	SKF
78-93-3	2-Butanone	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
591-78-6	2-Hexanone	ND	CCVE	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
108-10-1	4-Methyl-2-pentanone	ND	CCVE, ICVE, QL-02	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
67-64-1	**Acetone**	**0.042**	ICVE	mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/19/2023 20:32	SKF
107-02-8	Acrolein	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
107-13-1	Acrylonitrile	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
71-43-2	Benzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
74-97-5	Bromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/19/2023 20:32	SKF
75-27-4	Bromodichloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
75-25-2	Bromoform	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
74-83-9	Bromomethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF

Sample Information

Client Sample ID: **23SP6 (22.5-25 ft)** **York Sample ID:** **23K0980-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	**Carbon disulfide**	**0.011**		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
56-23-5	Carbon tetrachloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**0.0049**	J	mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
124-48-1	Dibromochloromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
74-95-3	Dibromomethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**0.0045**	J	mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	p- & m- Xylenes	ND		mg/kg dry	0.0059	0.012	1	EPA 8260D	11/19/2023 08:00	11/19/2023 20:32	SKF
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
135-98-8	sec-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
100-42-5	Styrene	ND	QL-02	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
75-65-0	tert-Butyl alcohol (TBA)	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/19/2023 20:32	SKF
98-06-6	tert-Butylbenzene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
127-18-4	Tetrachloroethylene	ND	QL-02, CCVE, ICVE	mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
108-88-3	Toluene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
156-60-5	trans-1,2-Dichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
10061-02-6	trans-1,3-Dichloropropylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
110-57-6	* trans-1,4-dichloro-2-butene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723	11/19/2023 20:32	SKF
79-01-6	Trichloroethylene	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
75-69-4	Trichlorofluoromethane	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
75-01-4	Vinyl Chloride	ND		mg/kg dry	0.0030	0.0059	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF
1330-20-7	Xylenes, Total	ND		mg/kg dry	0.0089	0.018	1	EPA 8260D Certifications:	11/19/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/19/2023 20:32	SKF

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.6 %*	*85-120*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*119 %*	*76-130*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		mg/kg dry			1	EPA 8260C Certifications:	11/19/2023 08:00	11/19/2023 20:32	SKF

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
120-82-1	1,2,4-Trichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-50-1	1,2-Dichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,PADEP-68-04440	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
541-73-1	1,3-Dichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,PADEP-68-04440	KH
106-46-7	1,4-Dichlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,PADEP-68-04440	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
95-95-4	2,4,5-Trichlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-06-2	2,4,6-Trichlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
120-83-2	2,4-Dichlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
105-67-9	2,4-Dimethylphenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
51-28-5	2,4-Dinitrophenol	ND	CAL-E	mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
121-14-2	2,4-Dinitrotoluene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
606-20-2	2,6-Dinitrotoluene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-58-7	2-Chloronaphthalene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-57-8	2-Chlorophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-57-6	2-Methylnaphthalene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-48-7	2-Methylphenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-74-4	2-Nitroaniline	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-75-5	2-Nitrophenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65794-96-9	3- & 4-Methylphenols	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-94-1	3,3-Dichlorobenzidine	ND	CAL-E	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	KH
99-09-2	3-Nitroaniline	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
83-32-9	**Acenaphthene**	**0.118**	J	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
208-96-8	Acenaphthylene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		mg/kg dry	0.241	0.482	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-12-7	**Anthracene**	**0.287**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
1912-24-9	Atrazine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	CAL-E	mg/kg dry	0.241	0.482	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440
56-55-3	**Benzo(a)anthracene**	**0.530**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
50-32-8	**Benzo(a)pyrene**	**0.504**	CCVE	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
205-99-2	**Benzo(b)fluoranthene**	**0.532**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
191-24-2	**Benzo(g,h,i)perylene**	**0.255**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
207-08-9	**Benzo(k)fluoranthene**	**0.194**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
65-85-0	Benzoic acid	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-81-7	Bis(2-ethylhexyl)phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	**Carbazole**	**0.0875**	J	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
218-01-9	**Chrysene**	**0.479**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
53-70-3	**Dibenzo(a,h)anthracene**	**0.0875**	J	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
132-64-9	Dibenzofuran	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
122-39-4	* Diphenylamine	ND		mg/kg dry	0.120	0.240	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH
206-44-0	**Fluoranthene**	**1.02**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	**Fluorene**	**0.120**		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
118-74-1	Hexachlorobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
87-68-3	Hexachlorobutadiene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
67-72-1	Hexachloroethane	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.309**	CCVE	mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
78-59-1	Isophorone	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	Naphthalene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D Certifications:	11/20/2023 08:52	11/21/2023 20:30	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-95-3	Nitrobenzene	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
62-75-9	N-Nitrosodimethylamine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
621-64-7	N-nitroso-di-n-propylamine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
87-86-5	Pentachlorophenol	ND	CAL-E	mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
85-01-8	**Phenanthrene**	**0.885**		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
108-95-2	Phenol	ND		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.932**		mg/kg dry	0.0603	0.120	2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*85.4 %*		*20-108*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*81.5 %*		*23-114*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*79.4 %*		*22-108*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*75.0 %*		*21-113*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*112 %*	S-08	*19-110*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*83.3 %*		*24-116*

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Soil

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		mg/kg	0.0198	1	EPA 8270D SIM	11/16/2023 08:36	11/17/2023 01:43	KH
							Certifications:	NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*58.7 %*	*39-127.5*

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ug/kg dry	0.161	0.256	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NJDEP-NY037		
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ug/kg dry	0.0767	0.289	1	EPA 1633 Draft 3	11/20/2023 12:52	11/22/2023 15:16	ER
								Certifications:	NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: **23SP6 (22.5-25 ft)** **York Sample ID:** **23K0980-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.152	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.259	0.265	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.249	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ug/kg dry	0.242	0.269	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.274	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ug/kg dry	0.276	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ug/kg dry	0.287	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ug/kg dry	0.236	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ug/kg dry	0.181	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ug/kg dry	0.149	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2355-31-9	N-MeFOSAA	ND		ug/kg dry	0.214	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2991-50-6	N-EtFOSAA	ND		ug/kg dry	0.281	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ug/kg dry	0.158	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ug/kg dry	0.211	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ug/kg dry	0.224	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ug/kg dry	0.276	0.279	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
27619-97-2	* 1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ug/kg dry	0.861	1.10	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ug/kg dry	1.09	1.11	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**0.159**	J	ug/kg dry	0.158	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NELAC-NY12058,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
113507-82-7	* Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ug/kg dry	0.201	0.515	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
151772-58-6	* Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ug/kg dry	0.279	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
377-73-1	* Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ug/kg dry	0.0897	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
863090-89-5	* Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ug/kg dry	0.139	0.579	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2706-91-4	* Perfluoro-1-pentanesulfonate (PFPeS)	ND		ug/kg dry	0.227	0.272	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
757124-72-4	* 1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ug/kg dry	0.861	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
13252-13-6	* HFPO-DA (Gen-X)	ND		ug/kg dry	0.880	1.16	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
763051-92-9	* 11CL-PF3OUdS	ND		ug/kg dry	0.450	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
756426-58-1	* 9CL-PF3ONS	ND		ug/kg dry	0.356	1.08	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
919005-14-4	* ADONA	ND		ug/kg dry	0.252	1.09	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ug/kg dry	0.245	0.281	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ug/kg dry	0.179	0.278	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097 ,NJDEP-NY037	11/20/2023 12:52	11/22/2023 15:16	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ug/kg dry	0.918	1.45	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ug/kg dry	3.04	7.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ug/kg dry	2.17	7.24	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
24448-09-7	* N-MeFOSE	ND		ug/kg dry	0.884	2.89	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
31506-32-8	* N-MeFOSA	ND		ug/kg dry	0.261	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
1691-99-2	* N-EtFOSE	ND		ug/kg dry	1.01	2.89	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER
4151-50-2	* N-EtFOSA	ND		ug/kg dry	0.287	0.289	1	EPA 1633 Draft 3 Certifications: NELAC-NH2097	11/20/2023 12:52	11/22/2023 15:16	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*84.8 %*	*25-150*
Surrogate: M5PFHxA	*105 %*	*25-150*
Surrogate: M4PFHpA	*120 %*	*25-150*
Surrogate: M3PFHxS	*133 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*101 %*	*25-150*
Surrogate: M6PFDA	*100 %*	*25-150*
Surrogate: M7PFUdA	*92.7 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*79.8 %*	*25-150*
Surrogate: M2PFTeDA	*66.7 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.37 %*	*25-150*

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.6 %*			*25-150*						
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*6.90 %*			*25-150*						
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*59.5 %*			*10-150*						
	Surrogate: d3-N-MeFOSAA	*45.6 %*			*25-150*						
	Surrogate: d5-N-EtFOSAA	*49.4 %*			*25-150*						
	Surrogate: M2-6:2 FTS	*61.9 %*			*25-200*						
	Surrogate: M2-8:2 FTS	*50.9 %*			*25-200*						
	Surrogate: M9PFNA	*107 %*			*25-150*						
	Surrogate: M2-4:2 FTS	*68.6 %*			*25-150*						
	Surrogate: d-N-MeFOSA	*46.5 %*			*25-150*						
	Surrogate: d-N-EtFOSA	*38.0 %*			*25-150*						
	Surrogate: M3HFPO-DA	*111 %*			*25-150*						
	Surrogate: d9-N-EtFOSE	*26.5 %*			*25-150*						
	Surrogate: d7-N-MeFOSE	*41.4 %*			*25-150*						

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Phenanthrenecarboxylic Acid...**	**0.990**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:			
NA	**Unknown PAH RT 13.0**	**1.41**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:			
NA	**Unknown RT 12.1**	**1.27**	J	mg/kg dry			2	EPA 8270D	11/20/2023 08:52	11/21/2023 20:30	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/kg dry	48.0	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,PADEP-68-04440		
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.40	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/kg dry	12.0	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/kg dry	122	5	EPA 8081B	11/20/2023 10:18	11/21/2023 22:56	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*89.4 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.2 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0243	1	EPA 8082A	11/20/2023 10:18	11/21/2023 11:04	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*76.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*86.5 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**14700**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-36-0	Antimony	ND		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.66**		mg/kg dry	1.84	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**50.3**		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		mg/kg dry	0.062	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		mg/kg dry	0.368	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-70-2	**Calcium**	**1830**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**28.4**		mg/kg dry	0.613	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	**Cobalt**	**7.90**		mg/kg dry	0.490	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-50-8	**Copper**	**11.5**		mg/kg dry	2.45	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-89-6	**Iron**	**24700**		mg/kg dry	30.6	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**14.9**	B	mg/kg dry	0.613	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**5670**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**295**		mg/kg dry	0.613	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	**Nickel**	**19.5**		mg/kg dry	1.22	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-09-7	**Potassium**	**3020**		mg/kg dry	6.13	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**5.89**		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/kg dry	0.618	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**155**		mg/kg dry	61.3	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		mg/kg dry	3.06	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-62-2	**Vanadium**	**34.2**		mg/kg dry	1.22	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-66-6	**Zinc**	**70.2**		mg/kg dry	3.05	1	EPA 6010D	11/22/2023 08:25	11/22/2023 17:57	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0441	1	EPA 7473	11/21/2023 14:41	11/21/2023 21:12	AGNR
							Certifications:	CTDOH-PH-0723,NJDEP-CT005,NELAC-NY10854,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.735	1	EPA 7196A	11/20/2023 14:08	11/20/2023 18:53	SMK
							Certifications:	NJDEP-CT005,CTDOH-PH-0723,NELAC-NY10854,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	*** Chromium, Trivalent**	**28.4**		mg/kg	0.500	1	Calculation	11/22/2023 07:15	11/22/2023 18:34	ZTS
							Certifications:			

Sample Information

Client Sample ID: 23SP6 (22.5-25 ft) **York Sample ID:** 23K0980-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Soil	November 13, 2023 12:00 pm	11/14/2023

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.735	1	EPA 9014/9010C	11/20/2023 10:01	11/20/2023 16:06	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**68.0**		%	0.100	1	SM 2540G	11/21/2023 08:38	11/21/2023 16:07	PMB
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23K0980-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-044		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/20/2023 09:00	11/20/2023 13:17	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K0980-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND	QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0980-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K0980-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*113 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.5 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 13:17	SMA

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0980-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0980-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND	QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	CCVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: Field Blank

York Sample ID: 23K0980-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K0980-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02, CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.0 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*	*79-122*

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K0980-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/20/2023 09:00	11/20/2023 18:55	SMA

Sample Information

Client Sample ID: PFAS Field Blank **York Sample ID:** 23K0980-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.470	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.350	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.710	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.680	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.420	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.820	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.520	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.750	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.740	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.690	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2355-31-9	N-MeFOSAA	ND		ng/L	0.790	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	2.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.230	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER

Sample Information

Client Sample ID: **PFAS Field Blank** **York Sample ID:** **23K0980-11**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.880	2.00	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.910	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.32	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.06	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.05	7.68	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**5.32**	J	ng/L	0.330	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.500	3.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.14	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.250	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.370	4.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	11/21/2023 12:23	11/22/2023 18:22	ER
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.760	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.79	7.50	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.23	8.00	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.38	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
756426-58-1	9CL-PF3ONS	ND		ng/L	0.700	7.48	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
919005-14-4	ADONA	ND		ng/L	0.530	7.56	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.930	1.94	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.860	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	11/21/2023 12:23	11/22/2023 18:22	ER
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.03	5.00	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.33	25.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.47	25.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
24448-09-7	* N-MeFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
31506-32-8	* N-MeFOSA	ND		ng/L	1.58	2.00	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER

Sample Information

Client Sample ID: PFAS Field Blank

York Sample ID: 23K0980-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K0980	220293 100 E. 149th St. Bronx, NY	Water	November 13, 2023 3:00 pm	11/14/2023

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.99	20.0	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER
4151-50-2	* N-EtFOSA	ND		ng/L	1.80	2.00	1	EPA 1633 Draft 3 Certifications:	11/21/2023 12:23	11/22/2023 18:22	ER

Surrogate Recoveries	Result	Acceptance Range
Surrogate: M3PFBS	*89.8 %*	*25-150*
Surrogate: M5PFHxA	*97.9 %*	*25-150*
Surrogate: M4PFHpA	*115 %*	*25-150*
Surrogate: M3PFHxS	*109 %*	*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*90.6 %*	*25-150*
Surrogate: M6PFDA	*109 %*	*25-150*
Surrogate: M7PFUdA	*113 %*	*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*92.4 %*	*25-150*
Surrogate: M2PFTeDA	*42.6 %*	*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.683 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*97.3 %*	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*14.0 %*	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*75.6 %*	*10-150*
Surrogate: d3-N-MeFOSAA	*48.2 %*	*25-150*
Surrogate: d5-N-EtFOSAA	*56.2 %*	*25-150*
Surrogate: M2-6:2 FTS	*55.7 %*	*25-200*
Surrogate: M2-8:2 FTS	*46.8 %*	*25-200*
Surrogate: M9PFNA	*99.7 %*	*25-150*
Surrogate: M2-4:2 FTS	*61.3 %*	*25-150*
Surrogate: d-N-MeFOSA	*54.2 %*	*25-150*
Surrogate: d-N-EtFOSA	*41.1 %*	*25-150*
Surrogate: M3HFPO-DA	*111 %*	*25-150*
Surrogate: d9-N-EtFOSE	*20.8 %*	*25-150*
Surrogate: d7-N-MeFOSE	*34.3 %*	*25-150*

Analytical Batch Summary

Batch ID: BK31066 **Preparation Method:** EPA 3550C **Prepared By:** me

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/16/23
23K0980-02	23SP5 (12.5-15 ft)	11/16/23
23K0980-03	23SP5 (15-17.5 ft)	11/16/23
23K0980-04	23SP5 (25-27.5 ft)	11/16/23
23K0980-05	23SP6 (0-2.5 ft)	11/16/23
23K0980-06	23SP6 (12.5-15 ft)	11/16/23
23K0980-07	23SP6 (15-17.5 ft)	11/16/23
23K0980-08	23SP6 (22.5-25 ft)	11/16/23
BK31066-BLK1	Blank	11/16/23
BK31066-BS1	LCS	11/16/23
BK31066-MS1	Matrix Spike	11/16/23
BK31066-MSD1	Matrix Spike Dup	11/16/23

Batch ID: BK31234 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/19/23
23K0980-02	23SP5 (12.5-15 ft)	11/19/23
23K0980-03	23SP5 (15-17.5 ft)	11/19/23
23K0980-04	23SP5 (25-27.5 ft)	11/19/23
23K0980-05	23SP6 (0-2.5 ft)	11/19/23
23K0980-06	23SP6 (12.5-15 ft)	11/19/23
23K0980-07	23SP6 (15-17.5 ft)	11/19/23
BK31234-BLK1	Blank	11/19/23
BK31234-DUP1	Duplicate	11/19/23
BK31234-MS1	Matrix Spike	11/19/23
BK31234-SRM1	Reference	11/19/23

Batch ID: BK31235 **Preparation Method:** EPA 3550C **Prepared By:** JLM

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23

23K0980-08	23SP6 (22.5-25 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31235-BLK1	Blank	11/20/23
BK31235-BLK2	Blank	11/20/23
BK31235-BS1	LCS	11/20/23
BK31235-BS2	LCS	11/20/23
BK31235-MS1	Matrix Spike	11/20/23
BK31235-MS2	Matrix Spike	11/20/23
BK31235-MSD1	Matrix Spike Dup	11/20/23
BK31235-MSD2	Matrix Spike Dup	11/20/23

Batch ID: BK31242 **Preparation Method:** EPA 5030B/1311 **Prepared By:** SKF

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-02	23SP5 (12.5-15 ft)	11/19/23
23K0980-03	23SP5 (15-17.5 ft)	11/19/23
23K0980-04	23SP5 (25-27.5 ft)	11/19/23
23K0980-06	23SP6 (12.5-15 ft)	11/19/23
23K0980-08	23SP6 (22.5-25 ft)	11/19/23
BK31242-BLK1	Blank	11/19/23
BK31242-BLK2	Blank	11/19/23
BK31242-BS1	LCS	11/19/23
BK31242-BSD1	LCS Dup	11/19/23

Batch ID: BK31257 **Preparation Method:** EPA 5035A **Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02RE1	23SP5 (12.5-15 ft)	11/20/23
23K0980-03RE1	23SP5 (15-17.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
BK31257-BLK1	Blank	11/20/23
BK31257-BLK2	Blank	11/20/23
BK31257-BS1	LCS	11/20/23
BK31257-BSD1	LCS Dup	11/20/23

Batch ID: BK31284 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31284-BLK1	Blank	11/20/23
BK31284-BS1	LCS	11/20/23

BK31284-MS1	Matrix Spike	11/20/23
BK31284-MSD1	Matrix Spike Dup	11/20/23

Batch ID: BK31292 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31292-BLK1	Blank	11/20/23
BK31292-BS1	LCS	11/20/23
BK31292-BS2	LCS	11/20/23
BK31292-DUP1	Duplicate	11/20/23

Batch ID: BK31294 **Preparation Method:** Analysis Preparation Soil **Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23
23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31294-BLK1	Blank	11/20/23
BK31294-DUP1	Duplicate	11/20/23
BK31294-MS1	Matrix Spike	11/20/23
BK31294-MSD1	Matrix Spike Dup	11/20/23
BK31294-SRM1	Reference	11/20/23

Batch ID: BK31296 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-09	Trip Blank	11/20/23
23K0980-10	Field Blank	11/20/23
BK31296-BLK1	Blank	11/20/23
BK31296-BS1	LCS	11/20/23
BK31296-BSD1	LCS Dup	11/20/23

Batch ID: BK31311 **Preparation Method:** EPA SW846-3060 **Prepared By:** SMK

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/20/23

23K0980-02	23SP5 (12.5-15 ft)	11/20/23
23K0980-03	23SP5 (15-17.5 ft)	11/20/23
23K0980-04	23SP5 (25-27.5 ft)	11/20/23
23K0980-05	23SP6 (0-2.5 ft)	11/20/23
23K0980-06	23SP6 (12.5-15 ft)	11/20/23
23K0980-07	23SP6 (15-17.5 ft)	11/20/23
23K0980-08	23SP6 (22.5-25 ft)	11/20/23
BK31311-BLK1	Blank	11/20/23
BK31311-DUP1	Duplicate	11/20/23
BK31311-MS1	Matrix Spike	11/20/23
BK31311-MSD1	Matrix Spike Dup	11/20/23
BK31311-SRM1	Reference	11/20/23

Batch ID: BK31369 **Preparation Method:** % Solids Prep **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/21/23
23K0980-02	23SP5 (12.5-15 ft)	11/21/23
23K0980-03	23SP5 (15-17.5 ft)	11/21/23
23K0980-04	23SP5 (25-27.5 ft)	11/21/23
BK31369-DUP1	Duplicate	11/21/23

Batch ID: BK31378 **Preparation Method:** % Solids Prep **Prepared By:** PMB

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-05	23SP6 (0-2.5 ft)	11/21/23
23K0980-06	23SP6 (12.5-15 ft)	11/21/23
23K0980-07	23SP6 (15-17.5 ft)	11/21/23
23K0980-08	23SP6 (22.5-25 ft)	11/21/23
BK31378-DUP1	Duplicate	11/21/23

Batch ID: BK31385 **Preparation Method:** EPA 3550C **Prepared By:** SAC

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/21/23
23K0980-01	23SP5 (0-2.5 ft)	11/21/23
23K0980-02	23SP5 (12.5-15 ft)	11/21/23
23K0980-02	23SP5 (12.5-15 ft)	11/21/23
23K0980-02RE2	23SP5 (12.5-15 ft)	11/21/23
23K0980-03	23SP5 (15-17.5 ft)	11/21/23
23K0980-03	23SP5 (15-17.5 ft)	11/21/23
23K0980-03RE2	23SP5 (15-17.5 ft)	11/21/23
23K0980-04	23SP5 (25-27.5 ft)	11/21/23
23K0980-04	23SP5 (25-27.5 ft)	11/21/23
BK31385-BLK1	Blank	11/21/23
BK31385-BLK1	Blank	11/21/23
BK31385-BS1	LCS	11/21/23

Batch ID: BK31413 **Preparation Method:** EPA 1633 Prep **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-11	PFAS Field Blank	11/21/23
BK31413-BLK1	Blank	11/21/23
BK31413-BS1	LCS	11/21/23
BK31413-BS2	LCS	11/21/23

Batch ID: BK31420 **Preparation Method:** EPA 7473 soil **Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-08	23SP6 (22.5-25 ft)	11/21/23
BK31420-BLK1	Blank	11/21/23
BK31420-DUP1	Duplicate	11/21/23
BK31420-MS1	Matrix Spike	11/21/23
BK31420-SRM1	Reference	11/21/23

Batch ID: BK31444 **Preparation Method:** Analysis Preparation **Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/22/23
23K0980-02	23SP5 (12.5-15 ft)	11/22/23
23K0980-03	23SP5 (15-17.5 ft)	11/22/23
23K0980-04	23SP5 (25-27.5 ft)	11/22/23
23K0980-05	23SP6 (0-2.5 ft)	11/22/23
23K0980-06	23SP6 (12.5-15 ft)	11/22/23
23K0980-07	23SP6 (15-17.5 ft)	11/22/23
23K0980-08	23SP6 (22.5-25 ft)	11/22/23

Batch ID: BK31472 **Preparation Method:** EPA 3050B **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23K0980-01	23SP5 (0-2.5 ft)	11/22/23
23K0980-02	23SP5 (12.5-15 ft)	11/22/23
23K0980-03	23SP5 (15-17.5 ft)	11/22/23
23K0980-04	23SP5 (25-27.5 ft)	11/22/23
23K0980-05	23SP6 (0-2.5 ft)	11/22/23
23K0980-06	23SP6 (12.5-15 ft)	11/22/23
23K0980-07	23SP6 (15-17.5 ft)	11/22/23
23K0980-08	23SP6 (22.5-25 ft)	11/22/23
BK31472-BLK1	Blank	11/22/23
BK31472-DUP1	Duplicate	11/22/23
BK31472-MS1	Matrix Spike	11/22/23
BK31472-PS1	Post Spike	11/22/23
BK31472-SRM1	Reference	11/22/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
Blank (BK31242-BLK1)											Prepared & Analyzed: 11/19/2023
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
Blank (BK31242-BLK1)										Prepared & Analyzed: 11/19/2023	
Methylcyclohexane	ND	0.0050	mg/kg wet								
Methylene chloride	ND	0.010	"								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*46.8*		*ug/L*	*50.0*		*93.6*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.6*		*"*	*50.0*		*97.1*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.4*		*"*	*50.0*		*111*	*76-130*				
Blank (BK31242-BLK2)										Prepared & Analyzed: 11/19/2023	
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
Blank (BK31242-BLK2)											Prepared & Analyzed: 11/19/2023
Acrolein	ND	1.0	mg/kg wet								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.7*		*ug/L*	*50.0*		*95.3*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.1*		*"*	*50.0*		*96.2*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.8*		*"*	*50.0*		*112*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
LCS (BK31242-BS1)								Prepared & Analyzed: 11/19/2023			
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.0	75-129				
1,1,1-Trichloroethane	46		"	50.0		91.3	71-137				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.6	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		101	58-146				
1,1,2-Trichloroethane	45		"	50.0		89.1	83-123				
1,1-Dichloroethane	44		"	50.0		88.5	75-130				
1,1-Dichloroethylene	48		"	50.0		96.0	64-137				
1,2,3-Trichlorobenzene	44		"	50.0		88.5	81-140				
1,2,3-Trichloropropane	46		"	50.0		91.8	81-126				
1,2,4-Trichlorobenzene	47		"	50.0		93.9	80-141				
1,2,4-Trimethylbenzene	48		"	50.0		97.0	84-125				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.4	74-142				
1,2-Dibromoethane	46		"	50.0		91.1	86-123				
1,2-Dichlorobenzene	47		"	50.0		94.7	85-122				
1,2-Dichloroethane	46		"	50.0		92.5	71-133				
1,2-Dichloropropane	41		"	50.0		82.4	81-122				
1,3,5-Trimethylbenzene	49		"	50.0		97.1	82-126				
1,3-Dichlorobenzene	47		"	50.0		94.6	84-124				
1,4-Dichlorobenzene	47		"	50.0		94.2	84-124				
1,4-Dioxane	390		"	1050		37.2	10-228				
2-Butanone	45		"	50.0		89.7	58-147				
2-Hexanone	39		"	50.0		77.5	70-139				
4-Methyl-2-pentanone	28		"	50.0		55.4	72-132	Low Bias			
Acetone	32		"	50.0		64.8	36-155				
Acrolein	49		"	50.0		98.6	10-238				
Acrylonitrile	43		"	50.0		86.9	66-141				
Benzene	49		"	50.0		97.7	77-127				
Bromochloromethane	44		"	50.0		87.8	74-129				
Bromodichloromethane	43		"	50.0		85.2	81-124				
Bromoform	50		"	50.0		99.1	80-136				
Bromomethane	46		"	50.0		92.4	32-177				
Carbon disulfide	49		"	50.0		98.7	10-136				
Carbon tetrachloride	48		"	50.0		95.1	66-143				
Chlorobenzene	46		"	50.0		92.8	86-120				
Chloroethane	54		"	50.0		107	51-142				
Chloroform	46		"	50.0		91.6	76-131				
Chloromethane	41		"	50.0		82.8	49-132				
cis-1,2-Dichloroethylene	45		"	50.0		89.2	74-132				
cis-1,3-Dichloropropylene	41		"	50.0		82.1	81-129				
Cyclohexane	43		"	50.0		85.3	70-130				
Dibromochloromethane	45		"	50.0		89.6	10-200				
Dibromomethane	42		"	50.0		83.8	83-124				
Dichlorodifluoromethane	42		"	50.0		83.8	28-158				
Ethyl Benzene	46		"	50.0		92.3	84-125				
Hexachlorobutadiene	43		"	50.0		86.5	83-133				
Isopropylbenzene	47		"	50.0		95.0	81-127				
Methyl acetate	39		"	50.0		78.7	41-143				
Methyl tert-butyl ether (MTBE)	45		"	50.0		89.7	74-131				
Methylcyclohexane	42		"	50.0		84.5	70-130				
Methylene chloride	43		"	50.0		86.1	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
LCS (BK31242-BS1)								Prepared & Analyzed: 11/19/2023			
n-Butylbenzene	46		ug/L	50.0		92.7	80-130				
n-Propylbenzene	47		"	50.0		93.1	74-136				
o-Xylene	47		"	50.0		93.3	83-123				
p- & m- Xylenes	87		"	100		87.0	82-128				
p-Isopropyltoluene	48		"	50.0		95.8	85-125				
sec-Butylbenzene	47		"	50.0		93.6	83-125				
Styrene	43		"	50.0		85.9	86-126	Low Bias			
tert-Butyl alcohol (TBA)	230		"	250		91.9	70-130				
tert-Butylbenzene	47		"	50.0		94.5	80-127				
Tetrachloroethylene	32		"	50.0		63.2	80-129	Low Bias			
Toluene	46		"	50.0		93.0	85-121				
trans-1,2-Dichloroethylene	45		"	50.0		90.8	72-132				
trans-1,3-Dichloropropylene	42		"	50.0		84.5	78-132				
trans-1,4-dichloro-2-butene	45		"	50.0		90.0	75-135				
Trichloroethylene	43		"	50.0		85.7	84-123				
Trichlorofluoromethane	58		"	50.0		115	62-140				
Vinyl Chloride	46		"	50.0		91.5	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.3*		*"*	*50.0*		*94.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.3*		*"*	*50.0*		*96.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*49.2*		*"*	*50.0*		*98.3*	*76-130*				
LCS Dup (BK31242-BSD1)								Prepared & Analyzed: 11/19/2023			
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		94.2	75-129		2.34	30	
1,1,1-Trichloroethane	46		"	50.0		92.1	71-137		0.807	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		96.9	79-129		3.44	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.3	58-146		3.10	30	
1,1,2-Trichloroethane	45		"	50.0		90.0	83-123		1.07	30	
1,1-Dichloroethane	44		"	50.0		87.3	75-130		1.36	30	
1,1-Dichloroethylene	47		"	50.0		93.7	64-137		2.38	30	
1,2,3-Trichlorobenzene	45		"	50.0		90.1	81-140		1.81	30	
1,2,3-Trichloropropane	49		"	50.0		98.2	81-126		6.72	30	
1,2,4-Trichlorobenzene	48		"	50.0		95.7	80-141		1.88	30	
1,2,4-Trimethylbenzene	49		"	50.0		97.7	84-125		0.740	30	
1,2-Dibromo-3-chloropropane	42		"	50.0		84.7	74-142		3.97	30	
1,2-Dibromoethane	47		"	50.0		93.1	86-123		2.26	30	
1,2-Dichlorobenzene	48		"	50.0		96.1	85-122		1.45	30	
1,2-Dichloroethane	46		"	50.0		92.4	71-133		0.0649	30	
1,2-Dichloropropane	43		"	50.0		85.7	81-122		3.97	30	
1,3,5-Trimethylbenzene	50		"	50.0		99.6	82-126		2.50	30	
1,3-Dichlorobenzene	48		"	50.0		95.7	84-124		1.18	30	
1,4-Dichlorobenzene	48		"	50.0		95.8	84-124		1.66	30	
1,4-Dioxane	400		"	1050		38.5	10-228		3.42	30	
2-Butanone	45		"	50.0		90.0	58-147		0.334	30	
2-Hexanone	39		"	50.0		78.2	70-139		0.873	30	
4-Methyl-2-pentanone	29		"	50.0		57.4	72-132	Low Bias	3.54	30	
Acetone	32		"	50.0		63.6	36-155		1.90	30	
Acrolein	50		"	50.0		100	10-238		1.87	30	
Acrylonitrile	44		"	50.0		88.3	66-141		1.62	30	
Benzene	48		"	50.0		96.7	77-127		0.988	30	
Bromochloromethane	43		"	50.0		86.3	74-129		1.79	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31242 - EPA 5030B/1311											
LCS Dup (BK31242-BSD1)								Prepared & Analyzed: 11/19/2023			
Bromodichloromethane	43		ug/L	50.0		86.5	81-124		1.44	30	
Bromoform	50		"	50.0		100	80-136		1.40	30	
Bromomethane	48		"	50.0		96.3	32-177		4.13	30	
Carbon disulfide	48		"	50.0		97.0	10-136		1.78	30	
Carbon tetrachloride	47		"	50.0		93.5	66-143		1.70	30	
Chlorobenzene	48		"	50.0		95.5	86-120		2.83	30	
Chloroethane	54		"	50.0		107	51-142		0.261	30	
Chloroform	45		"	50.0		90.9	76-131		0.789	30	
Chloromethane	41		"	50.0		81.8	49-132		1.19	30	
cis-1,2-Dichloroethylene	44		"	50.0		88.9	74-132		0.337	30	
cis-1,3-Dichloropropylene	42		"	50.0		84.9	81-129		3.35	30	
Cyclohexane	42		"	50.0		84.8	70-130		0.659	30	
Dibromochloromethane	46		"	50.0		91.9	10-200		2.56	30	
Dibromomethane	42		"	50.0		83.2	83-124		0.742	30	
Dichlorodifluoromethane	43		"	50.0		85.1	28-158		1.47	30	
Ethyl Benzene	47		"	50.0		94.5	84-125		2.27	30	
Hexachlorobutadiene	45		"	50.0		89.0	83-133		2.92	30	
Isopropylbenzene	49		"	50.0		97.1	81-127		2.23	30	
Methyl acetate	39		"	50.0		77.8	41-143		1.20	30	
Methyl tert-butyl ether (MTBE)	44		"	50.0		87.9	74-131		2.05	30	
Methylcyclohexane	43		"	50.0		85.8	70-130		1.48	30	
Methylene chloride	42		"	50.0		83.6	57-141		2.99	30	
n-Butylbenzene	47		"	50.0		94.6	80-130		2.05	30	
n-Propylbenzene	48		"	50.0		95.7	74-136		2.78	30	
o-Xylene	46		"	50.0		92.8	83-123		0.602	30	
p- & m- Xylenes	88		"	100		87.6	82-128		0.768	30	
p-Isopropyltoluene	49		"	50.0		97.1	85-125		1.29	30	
sec-Butylbenzene	48		"	50.0		96.3	83-125		2.82	30	
Styrene	43		"	50.0		85.9	86-126	Low Bias	0.00	30	
tert-Butyl alcohol (TBA)	230		"	250		92.4	70-130		0.534	30	
tert-Butylbenzene	48		"	50.0		96.2	80-127		1.85	30	
Tetrachloroethylene	32		"	50.0		64.3	80-129	Low Bias	1.76	30	
Toluene	46		"	50.0		93.0	85-121		0.0215	30	
trans-1,2-Dichloroethylene	45		"	50.0		89.9	72-132		1.04	30	
trans-1,3-Dichloropropylene	43		"	50.0		85.5	78-132		1.11	30	
trans-1,4-dichloro-2-butene	47		"	50.0		93.8	75-135		4.14	30	
Trichloroethylene	44		"	50.0		88.9	84-123		3.69	30	
Trichlorofluoromethane	56		"	50.0		112	62-140		3.28	30	
Vinyl Chloride	46		"	50.0		91.3	52-130		0.197	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.4*		*"*	*50.0*		*94.8*	*77-125*				
Surrogate: SURR: Toluene-d8	*48.8*		*"*	*50.0*		*97.6*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*50.5*		*"*	*50.0*		*101*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
Blank (BK31257-BLK1)											Prepared & Analyzed: 11/20/2023
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.0050	"								
1,1,2,2-Tetrachloroethane	ND	0.0050	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0050	"								
1,1,2-Trichloroethane	ND	0.0050	"								
1,1-Dichloroethane	ND	0.0050	"								
1,1-Dichloroethylene	ND	0.0050	"								
1,2,3-Trichlorobenzene	ND	0.0050	"								
1,2,3-Trichloropropane	ND	0.0050	"								
1,2,4-Trichlorobenzene	ND	0.0050	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,2-Dibromo-3-chloropropane	ND	0.0050	"								
1,2-Dibromoethane	ND	0.0050	"								
1,2-Dichlorobenzene	ND	0.0050	"								
1,2-Dichloroethane	ND	0.0050	"								
1,2-Dichloropropane	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
1,3-Dichlorobenzene	ND	0.0050	"								
1,4-Dichlorobenzene	ND	0.0050	"								
1,4-Dioxane	ND	0.10	"								
2-Butanone	ND	0.0050	"								
2-Hexanone	ND	0.0050	"								
4-Methyl-2-pentanone	ND	0.0050	"								
Acetone	ND	0.010	"								
Acrolein	ND	0.010	"								
Acrylonitrile	ND	0.0050	"								
Benzene	ND	0.0050	"								
Bromochloromethane	ND	0.0050	"								
Bromodichloromethane	ND	0.0050	"								
Bromoform	ND	0.0050	"								
Bromomethane	ND	0.0050	"								
Carbon disulfide	ND	0.0050	"								
Carbon tetrachloride	ND	0.0050	"								
Chlorobenzene	ND	0.0050	"								
Chloroethane	ND	0.0050	"								
Chloroform	ND	0.0050	"								
Chloromethane	ND	0.0050	"								
cis-1,2-Dichloroethylene	ND	0.0050	"								
cis-1,3-Dichloropropylene	ND	0.0050	"								
Cyclohexane	ND	0.0050	"								
Dibromochloromethane	ND	0.0050	"								
Dibromomethane	ND	0.0050	"								
Dichlorodifluoromethane	ND	0.0050	"								
Ethyl Benzene	ND	0.0050	"								
Hexachlorobutadiene	ND	0.0050	"								
Isopropylbenzene	ND	0.0050	"								
Methyl acetate	ND	0.0050	"								
Methyl tert-butyl ether (MTBE)	ND	0.0050	"								
Methylcyclohexane	ND	0.0050	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
Blank (BK31257-BLK1)										Prepared & Analyzed: 11/20/2023	
Methylene chloride	ND	0.010	mg/kg wet								
n-Butylbenzene	ND	0.0050	"								
n-Propylbenzene	ND	0.0050	"								
o-Xylene	ND	0.0050	"								
p- & m- Xylenes	ND	0.010	"								
p-Isopropyltoluene	ND	0.0050	"								
sec-Butylbenzene	ND	0.0050	"								
Styrene	ND	0.0050	"								
tert-Butyl alcohol (TBA)	ND	0.0050	"								
tert-Butylbenzene	ND	0.0050	"								
Tetrachloroethylene	ND	0.0050	"								
Toluene	ND	0.0050	"								
trans-1,2-Dichloroethylene	ND	0.0050	"								
trans-1,3-Dichloropropylene	ND	0.0050	"								
trans-1,4-dichloro-2-butene	ND	0.0050	"								
Trichloroethylene	ND	0.0050	"								
Trichlorofluoromethane	ND	0.0050	"								
Vinyl Chloride	ND	0.0050	"								
Xylenes, Total	ND	0.015	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.8*		*ug/L*	*50.0*		*97.5*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.1*		*"*	*50.0*		*94.2*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.9*		*"*	*50.0*		*112*	*76-130*				
Blank (BK31257-BLK2)										Prepared & Analyzed: 11/20/2023	
1,1,1,2-Tetrachloroethane	ND	0.50	mg/kg wet								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	10	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	1.0	"								
Acrolein	ND	1.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
Blank (BK31257-BLK2)									Prepared & Analyzed: 11/20/2023		
Acrylonitrile	ND	0.50	mg/kg wet								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	1.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*47.1*		*ug/L*	*50.0*		*94.2*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.1*		*"*	*50.0*		*94.3*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*55.4*		*"*	*50.0*		*111*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
LCS (BK31257-BS1)								Prepared & Analyzed: 11/20/2023			
1,1,1,2-Tetrachloroethane	42		ug/L	50.0		84.5	75-129				
1,1,1-Trichloroethane	41		"	50.0		82.3	71-137				
1,1,2,2-Tetrachloroethane	45		"	50.0		90.5	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.2	58-146				
1,1,2-Trichloroethane	42		"	50.0		83.6	83-123				
1,1-Dichloroethane	40		"	50.0		79.3	75-130				
1,1-Dichloroethylene	42		"	50.0		84.5	64-137				
1,2,3-Trichlorobenzene	44		"	50.0		87.0	81-140				
1,2,3-Trichloropropane	46		"	50.0		92.5	81-126				
1,2,4-Trichlorobenzene	45		"	50.0		90.9	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		87.4	84-125				
1,2-Dibromo-3-chloropropane	40		"	50.0		79.7	74-142				
1,2-Dibromoethane	45		"	50.0		89.3	86-123				
1,2-Dichlorobenzene	44		"	50.0		87.0	85-122				
1,2-Dichloroethane	44		"	50.0		88.6	71-133				
1,2-Dichloropropane	39		"	50.0		77.6	81-122	Low Bias			
1,3,5-Trimethylbenzene	44		"	50.0		88.7	82-126				
1,3-Dichlorobenzene	43		"	50.0		86.9	84-124				
1,4-Dichlorobenzene	44		"	50.0		87.2	84-124				
1,4-Dioxane	360		"	1050		34.3	10-228				
2-Butanone	42		"	50.0		84.1	58-147				
2-Hexanone	38		"	50.0		75.4	70-139				
4-Methyl-2-pentanone	27		"	50.0		54.5	72-132	Low Bias			
Acetone	31		"	50.0		62.4	36-155				
Acrolein	43		"	50.0		85.6	10-238				
Acrylonitrile	41		"	50.0		81.1	66-141				
Benzene	42		"	50.0		83.2	77-127				
Bromochloromethane	39		"	50.0		77.8	74-129				
Bromodichloromethane	41		"	50.0		81.4	81-124				
Bromoform	48		"	50.0		95.8	80-136				
Bromomethane	26		"	50.0		52.0	32-177				
Carbon disulfide	41		"	50.0		82.3	10-136				
Carbon tetrachloride	43		"	50.0		85.0	66-143				
Chlorobenzene	42		"	50.0		84.8	86-120	Low Bias			
Chloroethane	31		"	50.0		62.0	51-142				
Chloroform	41		"	50.0		82.3	76-131				
Chloromethane	33		"	50.0		66.0	49-132				
cis-1,2-Dichloroethylene	41		"	50.0		81.2	74-132				
cis-1,3-Dichloropropylene	39		"	50.0		77.5	81-129	Low Bias			
Cyclohexane	37		"	50.0		74.1	70-130				
Dibromochloromethane	44		"	50.0		88.1	10-200				
Dibromomethane	41		"	50.0		81.2	83-124	Low Bias			
Dichlorodifluoromethane	30		"	50.0		61.0	28-158				
Ethyl Benzene	41		"	50.0		82.8	84-125	Low Bias			
Hexachlorobutadiene	43		"	50.0		86.8	83-133				
Isopropylbenzene	45		"	50.0		90.5	81-127				
Methyl acetate	38		"	50.0		75.6	41-143				
Methyl tert-butyl ether (MTBE)	42		"	50.0		84.9	74-131				
Methylcyclohexane	39		"	50.0		77.6	70-130				
Methylene chloride	39		"	50.0		77.6	57-141				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
LCS (BK31257-BS1)							Prepared & Analyzed: 11/20/2023				
n-Butylbenzene	41		ug/L	50.0		81.4	80-130				
n-Propylbenzene	43		"	50.0		86.2	74-136				
o-Xylene	41		"	50.0		82.4	83-123	Low Bias			
p- & m- Xylenes	75		"	100		74.5	82-128	Low Bias			
p-Isopropyltoluene	43		"	50.0		85.7	85-125				
sec-Butylbenzene	43		"	50.0		85.6	83-125				
Styrene	37		"	50.0		73.8	86-126	Low Bias			
tert-Butyl alcohol (TBA)	220		"	250		87.5	70-130				
tert-Butylbenzene	44		"	50.0		87.7	80-127				
Tetrachloroethylene	30		"	50.0		60.3	80-129	Low Bias			
Toluene	41		"	50.0		82.2	85-121	Low Bias			
trans-1,2-Dichloroethylene	41		"	50.0		82.1	72-132				
trans-1,3-Dichloropropylene	40		"	50.0		79.6	78-132				
trans-1,4-dichloro-2-butene	44		"	50.0		88.4	75-135				
Trichloroethylene	41		"	50.0		81.5	84-123	Low Bias			
Trichlorofluoromethane	37		"	50.0		74.7	62-140				
Vinyl Chloride	33		"	50.0		65.1	52-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	*48.5*		*"*	*50.0*		*97.0*	*77-125*				
Surrogate: SURR: Toluene-d8	*47.7*		*"*	*50.0*		*95.4*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*54.8*		*"*	*50.0*		*110*	*76-130*				
LCS Dup (BK31257-BSD1)							Prepared & Analyzed: 11/20/2023				
1,1,1,2-Tetrachloroethane	44		ug/L	50.0		88.1	75-129		4.13	30	
1,1,1-Trichloroethane	43		"	50.0		87.0	71-137		5.55	30	
1,1,2,2-Tetrachloroethane	52		"	50.0		103	79-129		13.3	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.9	58-146		3.01	30	
1,1,2-Trichloroethane	46		"	50.0		91.0	83-123		8.43	30	
1,1-Dichloroethane	42		"	50.0		84.2	75-130		6.04	30	
1,1-Dichloroethylene	44		"	50.0		88.2	64-137		4.28	30	
1,2,3-Trichlorobenzene	47		"	50.0		94.0	81-140		7.69	30	
1,2,3-Trichloropropane	55		"	50.0		110	81-126		17.5	30	
1,2,4-Trichlorobenzene	48		"	50.0		96.0	80-141		5.43	30	
1,2,4-Trimethylbenzene	45		"	50.0		89.5	84-125		2.33	30	
1,2-Dibromo-3-chloropropane	51		"	50.0		102	74-142		24.4	30	
1,2-Dibromoethane	50		"	50.0		99.5	86-123		10.8	30	
1,2-Dichlorobenzene	46		"	50.0		91.3	85-122		4.80	30	
1,2-Dichloroethane	49		"	50.0		98.3	71-133		10.4	30	
1,2-Dichloropropane	40		"	50.0		79.8	81-122	Low Bias	2.82	30	
1,3,5-Trimethylbenzene	45		"	50.0		89.9	82-126		1.34	30	
1,3-Dichlorobenzene	45		"	50.0		89.1	84-124		2.50	30	
1,4-Dichlorobenzene	45		"	50.0		89.7	84-124		2.78	30	
1,4-Dioxane	560		"	1050		53.1	10-228		43.0	30	Non-dir.
2-Butanone	57		"	50.0		115	58-147		30.9	30	Non-dir.
2-Hexanone	49		"	50.0		97.6	70-139		25.7	30	
4-Methyl-2-pentanone	34		"	50.0		67.2	72-132	Low Bias	21.0	30	
Acetone	42		"	50.0		83.6	36-155		29.0	30	
Acrolein	55		"	50.0		111	10-238		25.7	30	
Acrylonitrile	55		"	50.0		109	66-141		29.7	30	
Benzene	44		"	50.0		88.9	77-127		6.58	30	
Bromochloromethane	44		"	50.0		87.1	74-129		11.2	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31257 - EPA 5035A											
LCS Dup (BK31257-BSD1)								Prepared & Analyzed: 11/20/2023			
Bromodichloromethane	41		ug/L	50.0		82.5	81-124		1.32	30	
Bromoform	55		"	50.0		110	80-136		13.6	30	
Bromomethane	32		"	50.0		64.2	32-177		20.9	30	
Carbon disulfide	44		"	50.0		87.3	10-136		5.92	30	
Carbon tetrachloride	45		"	50.0		90.2	66-143		5.93	30	
Chlorobenzene	44		"	50.0		87.5	86-120		3.11	30	
Chloroethane	35		"	50.0		70.1	51-142		12.2	30	
Chloroform	44		"	50.0		87.7	76-131		6.38	30	
Chloromethane	39		"	50.0		77.3	49-132		15.8	30	
cis-1,2-Dichloroethylene	43		"	50.0		85.5	74-132		5.16	30	
cis-1,3-Dichloropropylene	40		"	50.0		79.9	81-129	Low Bias	3.13	30	
Cyclohexane	39		"	50.0		78.2	70-130		5.36	30	
Dibromochloromethane	47		"	50.0		94.3	10-200		6.77	30	
Dibromomethane	43		"	50.0		85.8	83-124		5.46	30	
Dichlorodifluoromethane	34		"	50.0		68.0	28-158		10.9	30	
Ethyl Benzene	43		"	50.0		85.5	84-125		3.23	30	
Hexachlorobutadiene	44		"	50.0		88.7	83-133		2.16	30	
Isopropylbenzene	45		"	50.0		89.4	81-127		1.25	30	
Methyl acetate	50		"	50.0		99.6	41-143		27.4	30	
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.5	74-131		11.7	30	
Methylcyclohexane	39		"	50.0		77.1	70-130		0.698	30	
Methylene chloride	42		"	50.0		84.6	57-141		8.61	30	
n-Butylbenzene	42		"	50.0		83.0	80-130		1.90	30	
n-Propylbenzene	43		"	50.0		86.2	74-136		0.00	30	
o-Xylene	44		"	50.0		87.1	83-123		5.57	30	
p- & m- Xylenes	77		"	100		76.6	82-128	Low Bias	2.80	30	
p-Isopropyltoluene	43		"	50.0		86.7	85-125		1.14	30	
sec-Butylbenzene	43		"	50.0		86.8	83-125		1.42	30	
Styrene	39		"	50.0		77.2	86-126	Low Bias	4.50	30	
tert-Butyl alcohol (TBA)	310		"	250		122	70-130		33.2	30	Non-dir.
tert-Butylbenzene	44		"	50.0		88.7	80-127		1.20	30	
Tetrachloroethylene	31		"	50.0		61.3	80-129	Low Bias	1.58	30	
Toluene	42		"	50.0		83.4	85-121	Low Bias	1.40	30	
trans-1,2-Dichloroethylene	43		"	50.0		85.7	72-132		4.20	30	
trans-1,3-Dichloropropylene	42		"	50.0		84.0	78-132		5.33	30	
trans-1,4-dichloro-2-butene	51		"	50.0		102	75-135		14.3	30	
Trichloroethylene	41		"	50.0		82.1	84-123	Low Bias	0.758	30	
Trichlorofluoromethane	40		"	50.0		80.9	62-140		8.05	30	
Vinyl Chloride	37		"	50.0		73.2	52-130		11.8	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*51.2*		*"*	*50.0*		*102*	*77-125*				
Surrogate: SURR: Toluene-d8	*46.2*		*"*	*50.0*		*92.5*	*85-120*				
Surrogate: SURR: p-Bromofluorobenzene	*52.8*		*"*	*50.0*		*106*	*76-130*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
Blank (BK31296-BLK1)											Prepared & Analyzed: 11/20/2023
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.37	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
Blank (BK31296-BLK1)								Prepared & Analyzed: 11/20/2023			
Methylene chloride	ND	2.0	ug/L								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.0*		*"*	*10.0*		*110*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				
LCS (BK31296-BS1)								Prepared & Analyzed: 11/20/2023			
1,1,1,2-Tetrachloroethane	8.8		ug/L	10.0		88.1	82-126				
1,1,1-Trichloroethane	10		"	10.0		103	78-136				
1,1,2,2-Tetrachloroethane	9.6		"	10.0		96.5	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0		95.7	54-165				
1,1,2-Trichloroethane	9.1		"	10.0		91.0	82-123				
1,1-Dichloroethane	9.2		"	10.0		92.2	82-129				
1,1-Dichloroethylene	9.6		"	10.0		95.9	68-138				
1,2,3-Trichlorobenzene	8.0		"	10.0		79.6	40-130				
1,2,3-Trichloropropane	8.9		"	10.0		89.2	77-128				
1,2,4-Trichlorobenzene	7.9		"	10.0		79.1	65-137				
1,2,4-Trimethylbenzene	9.4		"	10.0		93.8	82-132				
1,2-Dibromo-3-chloropropane	10		"	10.0		103	45-147				
1,2-Dibromoethane	9.2		"	10.0		92.1	83-124				
1,2-Dichlorobenzene	8.9		"	10.0		89.2	79-123				
1,2-Dichloroethane	11		"	10.0		111	73-132				
1,2-Dichloropropane	8.8		"	10.0		88.5	78-126				
1,3,5-Trimethylbenzene	9.3		"	10.0		93.2	80-131				
1,3-Dichlorobenzene	8.7		"	10.0		86.8	86-130				
1,4-Dichlorobenzene	8.4		"	10.0		83.7	85-130	Low Bias			
1,4-Dioxane	73		"	210		34.6	10-349				
2-Butanone	9.3		"	10.0		92.9	49-152				
2-Hexanone	7.5		"	10.0		75.3	51-146				
4-Methyl-2-pentanone	8.4		"	10.0		84.2	57-145				
Acetone	4.9		"	10.0		49.0	14-150				
Acrolein	7.1		"	10.0		71.3	10-153				
Acrylonitrile	9.2		"	10.0		91.7	51-150				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
LCS (BK31296-BS1)								Prepared & Analyzed: 11/20/2023			
Benzene	10		ug/L	10.0		103	85-126				
Bromochloromethane	9.8		"	10.0		97.7	77-128				
Bromodichloromethane	9.3		"	10.0		93.2	79-128				
Bromoform	8.1		"	10.0		81.0	78-133				
Bromomethane	4.6		"	10.0		46.0	43-168				
Carbon disulfide	9.4		"	10.0		93.8	68-146				
Carbon tetrachloride	10		"	10.0		101	77-141				
Chlorobenzene	9.6		"	10.0		96.1	88-120				
Chloroethane	13		"	10.0		128	65-136				
Chloroform	9.7		"	10.0		97.4	82-128				
Chloromethane	10		"	10.0		100	43-155				
cis-1,2-Dichloroethylene	9.9		"	10.0		98.9	83-129				
cis-1,3-Dichloropropylene	8.8		"	10.0		88.5	80-131				
Cyclohexane	9.7		"	10.0		97.0	63-149				
Dibromochloromethane	9.2		"	10.0		92.5	80-130				
Dibromomethane	9.4		"	10.0		93.7	72-134				
Dichlorodifluoromethane	13		"	10.0		135	44-144				
Ethyl Benzene	10		"	10.0		99.8	80-131				
Hexachlorobutadiene	7.8		"	10.0		78.3	67-146				
Isopropylbenzene	8.9		"	10.0		89.2	76-140				
Methyl acetate	8.2		"	10.0		82.2	51-139				
Methyl tert-butyl ether (MTBE)	9.2		"	10.0		91.5	76-135				
Methylcyclohexane	8.9		"	10.0		89.1	72-143				
Methylene chloride	9.7		"	10.0		97.1	55-137				
n-Butylbenzene	8.3		"	10.0		83.4	79-132				
n-Propylbenzene	8.9		"	10.0		89.2	78-133				
o-Xylene	9.8		"	10.0		98.2	78-130				
p- & m- Xylenes	21		"	20.0		103	77-133				
p-Isopropyltoluene	9.1		"	10.0		91.3	81-136				
sec-Butylbenzene	8.9		"	10.0		89.2	79-137				
Styrene	9.9		"	10.0		99.3	67-132				
tert-Butyl alcohol (TBA)	48		"	50.0		96.6	25-162				
tert-Butylbenzene	8.4		"	10.0		84.5	77-138				
Tetrachloroethylene	4.6		"	10.0		46.3	82-131	Low Bias			
Toluene	10		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	9.6		"	10.0		96.1	80-132				
trans-1,3-Dichloropropylene	9.8		"	10.0		97.5	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		100	63-141				
Trichloroethylene	8.8		"	10.0		87.5	82-128				
Trichlorofluoromethane	15		"	10.0		155	67-139	High Bias			
Vinyl Chloride	12		"	10.0		118	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.75*		*"*	*10.0*		*97.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.67*		*"*	*10.0*		*96.7*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
LCS Dup (BK31296-BSD1)								Prepared & Analyzed: 11/20/2023			
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		88.8	82-126		0.791	30	
1,1,1-Trichloroethane	10		"	10.0		102	78-136		1.27	30	
1,1,2,2-Tetrachloroethane	9.9		"	10.0		99.3	76-129		2.86	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.7		"	10.0		97.4	54-165		1.76	30	
1,1,2-Trichloroethane	9.3		"	10.0		93.2	82-123		2.39	30	
1,1-Dichloroethane	9.5		"	10.0		95.0	82-129		2.99	30	
1,1-Dichloroethylene	9.6		"	10.0		95.9	68-138		0.00	30	
1,2,3-Trichlorobenzene	8.1		"	10.0		80.9	40-130		1.62	30	
1,2,3-Trichloropropane	9.3		"	10.0		92.7	77-128		3.85	30	
1,2,4-Trichlorobenzene	8.2		"	10.0		81.6	65-137		3.11	30	
1,2,4-Trimethylbenzene	9.5		"	10.0		95.0	82-132		1.27	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		102	45-147		0.782	30	
1,2-Dibromoethane	9.5		"	10.0		95.4	83-124		3.52	30	
1,2-Dichlorobenzene	9.0		"	10.0		89.9	79-123		0.782	30	
1,2-Dichloroethane	12		"	10.0		115	73-132		3.98	30	
1,2-Dichloropropane	9.1		"	10.0		90.7	78-126		2.46	30	
1,3,5-Trimethylbenzene	9.3		"	10.0		93.1	80-131		0.107	30	
1,3-Dichlorobenzene	8.7		"	10.0		87.1	86-130		0.345	30	
1,4-Dichlorobenzene	8.4		"	10.0		84.3	85-130	Low Bias	0.714	30	
1,4-Dioxane	78		"	210		37.1	10-349		7.16	30	
2-Butanone	9.8		"	10.0		97.6	49-152		4.93	30	
2-Hexanone	7.8		"	10.0		78.0	51-146		3.52	30	
4-Methyl-2-pentanone	8.8		"	10.0		88.1	57-145		4.53	30	
Acetone	5.0		"	10.0		49.5	14-150		1.02	30	
Acrolein	7.3		"	10.0		73.4	10-153		2.90	30	
Acrylonitrile	9.5		"	10.0		94.9	51-150		3.43	30	
Benzene	10		"	10.0		103	85-126		0.291	30	
Bromochloromethane	9.9		"	10.0		99.0	77-128		1.32	30	
Bromodichloromethane	9.6		"	10.0		96.3	79-128		3.27	30	
Bromoform	8.4		"	10.0		84.5	78-133		4.23	30	
Bromomethane	5.1		"	10.0		50.8	43-168		9.92	30	
Carbon disulfide	9.3		"	10.0		93.0	68-146		0.857	30	
Carbon tetrachloride	10		"	10.0		101	77-141		0.199	30	
Chlorobenzene	9.6		"	10.0		95.9	88-120		0.208	30	
Chloroethane	12		"	10.0		122	65-136		5.28	30	
Chloroform	9.9		"	10.0		98.9	82-128		1.53	30	
Chloromethane	9.1		"	10.0		91.3	43-155		9.30	30	
cis-1,2-Dichloroethylene	10		"	10.0		100	83-129		1.21	30	
cis-1,3-Dichloropropylene	9.2		"	10.0		92.1	80-131		3.99	30	
Cyclohexane	9.6		"	10.0		96.0	63-149		1.04	30	
Dibromochloromethane	9.5		"	10.0		94.7	80-130		2.35	30	
Dibromomethane	9.7		"	10.0		96.8	72-134		3.25	30	
Dichlorodifluoromethane	13		"	10.0		130	44-144		3.63	30	
Ethyl Benzene	9.9		"	10.0		99.0	80-131		0.805	30	
Hexachlorobutadiene	8.0		"	10.0		79.5	67-146		1.52	30	
Isopropylbenzene	8.9		"	10.0		89.0	76-140		0.224	30	
Methyl acetate	8.5		"	10.0		85.1	51-139		3.47	30	
Methyl tert-butyl ether (MTBE)	9.8		"	10.0		97.8	76-135		6.66	30	
Methylcyclohexane	9.1		"	10.0		90.7	72-143		1.78	30	
Methylene chloride	9.9		"	10.0		98.9	55-137		1.84	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31296 - EPA 5030B											
LCS Dup (BK31296-BSD1)								Prepared & Analyzed: 11/20/2023			
n-Butylbenzene	8.6		ug/L	10.0		85.7	79-132		2.72	30	
n-Propylbenzene	8.9		"	10.0		89.2	78-133		0.00	30	
o-Xylene	9.8		"	10.0		97.9	78-130		0.306	30	
p- & m- Xylenes	21		"	20.0		103	77-133		0.146	30	
p-Isopropyltoluene	9.1		"	10.0		91.4	81-136		0.109	30	
sec-Butylbenzene	9.0		"	10.0		90.4	79-137		1.34	30	
Styrene	9.9		"	10.0		98.8	67-132		0.505	30	
tert-Butyl alcohol (TBA)	50		"	50.0		99.2	25-162		2.66	30	
tert-Butylbenzene	8.6		"	10.0		85.8	77-138		1.53	30	
Tetrachloroethylene	4.6		"	10.0		45.9	82-131	Low Bias	0.868	30	
Toluene	10		"	10.0		99.7	80-127		0.500	30	
trans-1,2-Dichloroethylene	9.7		"	10.0		96.8	80-132		0.726	30	
trans-1,3-Dichloropropylene	9.9		"	10.0		98.7	78-131		1.22	30	
trans-1,4-dichloro-2-butene	9.9		"	10.0		98.9	63-141		1.21	30	
Trichloroethylene	8.9		"	10.0		88.9	82-128		1.59	30	
Trichlorofluoromethane	15		"	10.0		147	67-139	High Bias	4.96	30	
Vinyl Chloride	11		"	10.0		109	58-145		8.00	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.0*		*"*	*10.0*		*110*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.84*		*"*	*10.0*		*98.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.63*		*"*	*10.0*		*96.3*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

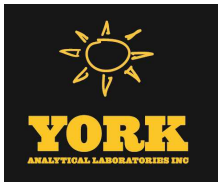
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Blank (BK31284-BLK1)											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Prepared: 11/20/2023 Analyzed: 11/21/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Blank (BK31284-BLK1)											
Prepared: 11/20/2023 Analyzed: 11/21/2023											
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*0.929*		"	*1.66*		*55.9*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.906*		"	*1.66*		*54.5*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.473*		"	*0.831*		*56.9*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.448*		"	*0.831*		*53.9*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.802*		"	*1.66*		*48.3*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.492*		"	*0.831*		*59.2*	*24-116*				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
LCS (BK31284-BS1)									Prepared: 11/20/2023 Analyzed: 11/21/2023		
1,1-Biphenyl	0.555	0.0416	mg/kg wet	0.831		66.8	18-111				
1,2,4,5-Tetrachlorobenzene	0.533	0.0830	"	0.831		64.2	21-131				
1,2,4-Trichlorobenzene	0.535	0.0416	"	0.831		64.4	10-140				
1,2-Dichlorobenzene	0.506	0.0416	"	0.831		61.0	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.491	0.0416	"	0.831		59.1	17-137				
1,3-Dichlorobenzene	0.504	0.0416	"	0.831		60.6	33-110				
1,4-Dichlorobenzene	0.489	0.0416	"	0.831		58.8	32-104				
2,3,4,6-Tetrachlorophenol	0.495	0.0830	"	0.831		59.6	30-130				
2,4,5-Trichlorophenol	0.496	0.0416	"	0.831		59.7	27-118				
2,4,6-Trichlorophenol	0.524	0.0416	"	0.831		63.0	31-120				
2,4-Dichlorophenol	0.570	0.0416	"	0.831		68.7	20-127				
2,4-Dimethylphenol	0.530	0.0416	"	0.831		63.8	14-132				
2,4-Dinitrophenol	0.202	0.0830	"	0.831		24.4	10-171				
2,4-Dinitrotoluene	0.594	0.0416	"	0.831		71.6	34-131				
2,6-Dinitrotoluene	0.571	0.0416	"	0.831		68.8	31-128				
2-Chloronaphthalene	0.542	0.0416	"	0.831		65.2	31-117				
2-Chlorophenol	0.543	0.0416	"	0.831		65.4	33-113				
2-Methylnaphthalene	0.540	0.0416	"	0.831		65.0	12-138				
2-Methylphenol	0.551	0.0416	"	0.831		66.4	10-136				
2-Nitroaniline	0.566	0.0830	"	0.831		68.1	27-132				
2-Nitrophenol	0.577	0.0416	"	0.831		69.5	17-129				
3- & 4-Methylphenols	0.501	0.0416	"	0.831		60.4	29-103				
3,3-Dichlorobenzidine	0.376	0.0416	"	0.831		45.3	22-149				
3-Nitroaniline	0.417	0.0830	"	0.831		50.2	20-133				
4,6-Dinitro-2-methylphenol	0.506	0.0830	"	0.831		61.0	10-143				
4-Bromophenyl phenyl ether	0.516	0.0416	"	0.831		62.1	29-120				
4-Chloro-3-methylphenol	0.614	0.0416	"	0.831		74.0	24-129				
4-Chloroaniline	0.348	0.0416	"	0.831		41.9	10-132				
4-Chlorophenyl phenyl ether	0.561	0.0416	"	0.831		67.6	27-124				
4-Nitroaniline	0.473	0.0830	"	0.831		57.0	16-128				
4-Nitrophenol	0.434	0.0830	"	0.831		52.2	10-141				
Acenaphthene	0.521	0.0416	"	0.831		62.7	30-121				
Acenaphthylene	0.518	0.0416	"	0.831		62.3	30-115				
Acetophenone	0.528	0.0416	"	0.831		63.6	20-112				
Aniline	0.328	0.166	"	0.831		39.5	10-119				
Anthracene	0.546	0.0416	"	0.831		65.7	34-118				
Atrazine	0.591	0.0416	"	0.831		71.1	26-112				
Benzaldehyde	0.444	0.0416	"	0.831		53.5	21-100				
Benzo(a)anthracene	0.581	0.0416	"	0.831		70.0	32-122				
Benzo(a)pyrene	0.572	0.0416	"	0.831		68.9	29-133				
Benzo(b)fluoranthene	0.595	0.0416	"	0.831		71.7	25-133				
Benzo(g,h,i)perylene	0.620	0.0416	"	0.831		74.7	10-143				
Benzo(k)fluoranthene	0.595	0.0416	"	0.831		71.6	25-128				
Benzoic acid	0.107	0.0416	"	0.831		12.9	10-140				
Benzyl alcohol	0.532	0.0416	"	0.831		64.0	30-115				
Benzyl butyl phthalate	0.594	0.0416	"	0.831		71.5	26-126				
Bis(2-chloroethoxy)methane	0.535	0.0416	"	0.831		64.4	19-132				
Bis(2-chloroethyl)ether	0.500	0.0416	"	0.831		60.2	19-125				
Bis(2-chloroisopropyl)ether	0.551	0.0416	"	0.831		66.3	20-135				
Bis(2-ethylhexyl)phthalate	0.614	0.0416	"	0.831		73.9	10-155				
Caprolactam	0.647	0.0830	"	0.831		77.9	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
LCS (BK31284-BS1)								Prepared: 11/20/2023 Analyzed: 11/21/2023			
Carbazole	0.560	0.0416	mg/kg wet	0.831		67.5	35-123				
Chrysene	0.554	0.0416	"	0.831		66.7	32-123				
Dibenzo(a,h)anthracene	0.627	0.0416	"	0.831		75.5	10-136				
Dibenzofuran	0.549	0.0416	"	0.831		66.1	29-121				
Diethyl phthalate	0.582	0.0416	"	0.831		70.1	34-116				
Dimethyl phthalate	0.573	0.0416	"	0.831		69.0	35-124				
Di-n-butyl phthalate	0.592	0.0416	"	0.831		71.2	31-116				
Di-n-octyl phthalate	0.607	0.0416	"	0.831		73.0	26-136				
Diphenylamine	0.604	0.0830	"	0.831		72.7	40-140				
Fluoranthene	0.567	0.0416	"	0.831		68.3	33-122				
Fluorene	0.549	0.0416	"	0.831		66.0	29-123				
Hexachlorobenzene	0.589	0.0416	"	0.831		71.0	21-124				
Hexachlorobutadiene	0.536	0.0416	"	0.831		64.5	10-149				
Hexachlorocyclopentadiene	ND	0.0416	"	0.831			10-129	Low Bias			
Hexachloroethane	0.501	0.0416	"	0.831		60.3	28-108				
Indeno(1,2,3-cd)pyrene	0.629	0.0416	"	0.831		75.7	10-135				
Isophorone	0.564	0.0416	"	0.831		67.9	20-132				
Naphthalene	0.528	0.0416	"	0.831		63.6	23-124				
Nitrobenzene	0.569	0.0416	"	0.831		68.5	13-132				
N-Nitrosodimethylamine	0.523	0.0416	"	0.831		62.9	11-129				
N-nitroso-di-n-propylamine	0.529	0.0416	"	0.831		63.7	24-119				
N-Nitrosodiphenylamine	0.595	0.0416	"	0.831		71.7	22-152				
Pentachlorophenol	0.217	0.0416	"	0.831		26.1	10-139				
Phenanthrene	0.552	0.0416	"	0.831		66.4	33-123				
Phenol	0.597	0.0416	"	0.831		71.8	23-115				
Pyrene	0.563	0.0416	"	0.831		67.8	32-130				
Surrogate: SURR: 2-Fluorophenol	*1.10*		*"*	*1.66*		*66.1*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.14*		*"*	*1.66*		*68.4*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.587*		*"*	*0.831*		*70.7*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.549*		*"*	*0.831*		*66.1*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.07*		*"*	*1.66*		*64.5*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.596*		*"*	*0.831*		*71.8*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike (BK31284-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
1,1-Biphenyl	0.882	0.0888	mg/kg dry	0.887	ND	99.4	10-130				
1,2,4,5-Tetrachlorobenzene	0.806	0.177	"	0.887	ND	90.8	10-133				
1,2,4-Trichlorobenzene	0.874	0.0888	"	0.887	ND	98.5	10-127				
1,2-Dichlorobenzene	0.684	0.0888	"	0.887	ND	77.0	14-111				
1,2-Diphenylhydrazine (as Azobenzene)	0.780	0.0888	"	0.887	ND	87.9	10-144				
1,3-Dichlorobenzene	0.718	0.0888	"	0.887	ND	81.0	11-111				
1,4-Dichlorobenzene	0.708	0.0888	"	0.887	ND	79.8	10-106				
2,3,4,6-Tetrachlorophenol	ND	0.177	"	0.887	ND		30-130	Low Bias			
2,4,5-Trichlorophenol	ND	0.0888	"	0.887	ND		10-127	Low Bias			
2,4,6-Trichlorophenol	ND	0.0888	"	0.887	ND		10-132	Low Bias			
2,4-Dichlorophenol	ND	0.0888	"	0.887	ND		10-128	Low Bias			
2,4-Dimethylphenol	0.322	0.0888	"	0.887	ND	36.2	10-137				
2,4-Dinitrophenol	ND	0.177	"	0.887	ND		10-171	Low Bias			
2,4-Dinitrotoluene	0.990	0.0888	"	0.887	ND	112	16-135				
2,6-Dinitrotoluene	0.955	0.0888	"	0.887	ND	108	18-131				
2-Chloronaphthalene	0.839	0.0888	"	0.887	ND	94.6	10-129				
2-Chlorophenol	ND	0.0888	"	0.887	ND		15-116	Low Bias			
2-Methylnaphthalene	0.833	0.0888	"	0.887	ND	93.8	10-147				
2-Methylphenol	0.207	0.0888	"	0.887	ND	23.4	10-136				
2-Nitroaniline	0.952	0.177	"	0.887	ND	107	10-137				
2-Nitrophenol	0.0845	0.0888	"	0.887	ND	9.52	10-129	Low Bias			
3- & 4-Methylphenols	0.101	0.0888	"	0.887	ND	11.4	10-123				
3,3-Dichlorobenzidine	0.637	0.0888	"	0.887	ND	71.8	10-155				
3-Nitroaniline	0.794	0.177	"	0.887	ND	89.5	12-133				
4,6-Dinitro-2-methylphenol	ND	0.177	"	0.887	ND		10-155	Low Bias			
4-Bromophenyl phenyl ether	0.864	0.0888	"	0.887	ND	97.4	14-128				
4-Chloro-3-methylphenol	ND	0.0888	"	0.887	ND		10-134	Low Bias			
4-Chloroaniline	0.443	0.0888	"	0.887	ND	49.9	10-145				
4-Chlorophenyl phenyl ether	0.806	0.0888	"	0.887	ND	90.8	14-130				
4-Nitroaniline	0.876	0.177	"	0.887	ND	98.7	10-147				
4-Nitrophenol	ND	0.177	"	0.887	ND		10-137	Low Bias			
Acenaphthene	0.859	0.0888	"	0.887	ND	96.8	10-146				
Acenaphthylene	0.791	0.0888	"	0.887	ND	89.2	10-134				
Acetophenone	0.735	0.0888	"	0.887	ND	82.9	10-116				
Aniline	0.356	0.356	"	0.887	ND	40.1	10-123				
Anthracene	0.903	0.0888	"	0.887	ND	102	10-142				
Atrazine	0.956	0.0888	"	0.887	ND	108	19-115				
Benzaldehyde	0.514	0.0888	"	0.887	ND	57.9	10-125				
Benzo(a)anthracene	1.03	0.0888	"	0.887	0.0909	106	10-158				
Benzo(a)pyrene	1.14	0.0888	"	0.887	0.0994	117	10-180				
Benzo(b)fluoranthene	1.12	0.0888	"	0.887	0.118	113	10-200				
Benzo(g,h,i)perylene	1.13	0.0888	"	0.887	0.0667	120	10-138				
Benzo(k)fluoranthene	0.999	0.0888	"	0.887	ND	113	10-197				
Benzoic acid	ND	0.0888	"	0.887	ND		10-166	Low Bias			
Benzyl alcohol	0.780	0.0888	"	0.887	ND	87.9	12-124				
Benzyl butyl phthalate	1.15	0.0888	"	0.887	ND	129	10-154				
Bis(2-chloroethoxy)methane	0.827	0.0888	"	0.887	ND	93.2	10-132				
Bis(2-chloroethyl)ether	0.710	0.0888	"	0.887	ND	80.0	10-119				
Bis(2-chloroisopropyl)ether	0.687	0.0888	"	0.887	ND	77.4	10-139				
Bis(2-ethylhexyl)phthalate	1.03	0.0888	"	0.887	ND	116	10-167				
Caprolactam	0.987	0.177	"	0.887	ND	111	10-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike (BK31284-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
Carbazole	0.908	0.0888	mg/kg dry	0.887	ND	102	10-167				
Chrysene	0.958	0.0888	"	0.887	0.0845	98.5	10-156				
Dibenzo(a,h)anthracene	1.16	0.0888	"	0.887	ND	131	10-137				
Dibenzofuran	0.863	0.0888	"	0.887	ND	97.3	10-147				
Diethyl phthalate	0.792	0.0888	"	0.887	ND	89.3	20-120				
Dimethyl phthalate	0.826	0.0888	"	0.887	ND	93.1	18-131				
Di-n-butyl phthalate	0.918	0.0888	"	0.887	ND	104	10-137				
Di-n-octyl phthalate	1.20	0.0888	"	0.887	ND	135	10-180				
Diphenylamine	1.07	0.177	"	0.887	ND	120	40-140				
Fluoranthene	1.14	0.0888	"	0.887	0.185	108	10-160				
Fluorene	0.867	0.0888	"	0.887	ND	97.7	10-157				
Hexachlorobenzene	0.883	0.0888	"	0.887	ND	99.5	10-137				
Hexachlorobutadiene	0.755	0.0888	"	0.887	ND	85.1	10-132				
Hexachlorocyclopentadiene	0.177	0.0888	"	0.887	ND	20.0	10-106				
Hexachloroethane	0.646	0.0888	"	0.887	ND	72.8	10-110				
Indeno(1,2,3-cd)pyrene	1.30	0.0888	"	0.887	0.0866	136	10-144				
Isophorone	0.801	0.0888	"	0.887	ND	90.3	10-132				
Naphthalene	0.809	0.0888	"	0.887	ND	91.2	10-141				
Nitrobenzene	0.775	0.0888	"	0.887	ND	87.4	10-131				
N-Nitrosodimethylamine	0.675	0.0888	"	0.887	ND	76.1	10-126				
N-nitroso-di-n-propylamine	0.716	0.0888	"	0.887	ND	80.7	10-125				
N-Nitrosodiphenylamine	1.00	0.0888	"	0.887	ND	113	10-177				
Pentachlorophenol	ND	0.0888	"	0.887	ND		10-153	Low Bias			
Phenanthrene	1.06	0.0888	"	0.887	0.172	99.8	10-148				
Phenol	0.0497	0.0888	"	0.887	ND	5.60	10-126	Low Bias			
Pyrene	1.07	0.0888	"	0.887	0.163	102	10-165				
Surrogate: SURR: 2-Fluorophenol	*0.00568*		"	*1.77*		*0.320*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.0887*		"	*1.77*		*5.00*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.774*		"	*0.887*		*87.3*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.827*		"	*0.887*		*93.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		"	*1.77*			*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.849*		"	*0.887*		*95.7*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike Dup (BK31284-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)								Prepared: 11/20/2023 Analyzed: 11/21/2023		
1,1-Biphenyl	0.612	0.0894	mg/kg dry	0.893	ND	68.5	10-130		36.2	30	Non-dir.
1,2,4,5-Tetrachlorobenzene	0.587	0.179	"	0.893	ND	65.8	10-133		31.3	30	Non-dir.
1,2,4-Trichlorobenzene	0.642	0.0894	"	0.893	ND	71.9	10-127		30.5	30	Non-dir.
1,2-Dichlorobenzene	0.541	0.0894	"	0.893	ND	60.6	14-111		23.3	30	
1,2-Diphenylhydrazine (as Azobenzene)	0.574	0.0894	"	0.893	ND	64.3	10-144		30.4	30	Non-dir.
1,3-Dichlorobenzene	0.550	0.0894	"	0.893	ND	61.6	11-111		26.5	30	
1,4-Dichlorobenzene	0.543	0.0894	"	0.893	ND	60.8	10-106		26.3	30	
2,3,4,6-Tetrachlorophenol	ND	0.179	"	0.893	ND		30-130	Low Bias		30	
2,4,5-Trichlorophenol	ND	0.0894	"	0.893	ND		10-127	Low Bias		30	
2,4,6-Trichlorophenol	ND	0.0894	"	0.893	ND		10-132	Low Bias		30	
2,4-Dichlorophenol	ND	0.0894	"	0.893	ND		10-128	Low Bias		30	
2,4-Dimethylphenol	0.286	0.0894	"	0.893	ND	32.0	10-137		11.8	30	
2,4-Dinitrophenol	ND	0.179	"	0.893	ND		10-171	Low Bias		30	
2,4-Dinitrotoluene	0.684	0.0894	"	0.893	ND	76.6	16-135		36.6	30	Non-dir.
2,6-Dinitrotoluene	0.700	0.0894	"	0.893	ND	78.4	18-131		30.8	30	Non-dir.
2-Chloronaphthalene	0.600	0.0894	"	0.893	ND	67.2	10-129		33.2	30	Non-dir.
2-Chlorophenol	ND	0.0894	"	0.893	ND		15-116	Low Bias		30	
2-Methylnaphthalene	0.664	0.0894	"	0.893	ND	74.4	10-147		22.5	30	
2-Methylphenol	0.191	0.0894	"	0.893	ND	21.4	10-136		7.92	30	
2-Nitroaniline	0.694	0.179	"	0.893	ND	77.8	10-137		31.3	30	Non-dir.
2-Nitrophenol	ND	0.0894	"	0.893	ND		10-129	Low Bias		30	
3- & 4-Methylphenols	0.0993	0.0894	"	0.893	ND	11.1	10-123		1.48	30	
3,3-Dichlorobenzidine	0.452	0.0894	"	0.893	ND	50.6	10-155		34.0	30	Non-dir.
3-Nitroaniline	0.569	0.179	"	0.893	ND	63.7	12-133		33.1	30	Non-dir.
4,6-Dinitro-2-methylphenol	ND	0.179	"	0.893	ND		10-155	Low Bias		30	
4-Bromophenyl phenyl ether	0.634	0.0894	"	0.893	ND	71.0	14-128		30.7	30	Non-dir.
4-Chloro-3-methylphenol	ND	0.0894	"	0.893	ND		10-134	Low Bias		30	
4-Chloroaniline	0.365	0.0894	"	0.893	ND	40.9	10-145		19.3	30	
4-Chlorophenyl phenyl ether	0.620	0.0894	"	0.893	ND	69.4	14-130		26.0	30	
4-Nitroaniline	0.622	0.179	"	0.893	ND	69.7	10-147		33.9	30	Non-dir.
4-Nitrophenol	ND	0.179	"	0.893	ND		10-137	Low Bias		30	
Acenaphthene	0.595	0.0894	"	0.893	ND	66.6	10-146		36.3	30	Non-dir.
Acenaphthylene	0.573	0.0894	"	0.893	ND	64.2	10-134		32.0	30	Non-dir.
Acetophenone	0.573	0.0894	"	0.893	ND	64.2	10-116		24.8	30	
Aniline	0.251	0.358	"	0.893	ND	28.2	10-123		34.3	30	Non-dir.
Anthracene	0.672	0.0894	"	0.893	ND	75.3	10-142		29.3	30	
Atrazine	0.713	0.0894	"	0.893	ND	79.8	19-115		29.1	30	
Benzaldehyde	0.424	0.0894	"	0.893	ND	47.5	10-125		19.1	30	
Benzo(a)anthracene	0.768	0.0894	"	0.893	0.0909	75.8	10-158		29.3	30	
Benzo(a)pyrene	0.829	0.0894	"	0.893	0.0994	81.7	10-180		31.7	30	Non-dir.
Benzo(b)fluoranthene	0.819	0.0894	"	0.893	0.118	78.6	10-200		31.2	30	Non-dir.
Benzo(g,h,i)perylene	0.839	0.0894	"	0.893	0.0667	86.4	10-138		29.8	30	
Benzo(k)fluoranthene	0.740	0.0894	"	0.893	ND	82.9	10-197		29.7	30	
Benzoic acid	2.43	0.0894	"	0.893	ND	272	10-166	High Bias		30	
Benzyl alcohol	0.609	0.0894	"	0.893	ND	68.2	12-124		24.6	30	
Benzyl butyl phthalate	0.878	0.0894	"	0.893	ND	98.3	10-154		26.6	30	
Bis(2-chloroethoxy)methane	0.617	0.0894	"	0.893	ND	69.1	10-132		29.0	30	
Bis(2-chloroethyl)ether	0.579	0.0894	"	0.893	ND	64.8	10-119		20.3	30	
Bis(2-chloroisopropyl)ether	0.547	0.0894	"	0.893	ND	61.2	10-139		22.8	30	
Bis(2-ethylhexyl)phthalate	0.757	0.0894	"	0.893	ND	84.8	10-167		30.4	30	Non-dir.
Caprolactam	0.747	0.179	"	0.893	ND	83.7	10-132		27.7	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31284 - EPA 3550C											
Matrix Spike Dup (BK31284-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)								Prepared: 11/20/2023 Analyzed: 11/21/2023		
Carbazole	0.693	0.0894	mg/kg dry	0.893	ND	77.6	10-167		26.8	30	
Chrysene	0.696	0.0894	"	0.893	0.0845	68.5	10-156		31.7	30	Non-dir.
Dibenzo(a,h)anthracene	0.890	0.0894	"	0.893	ND	99.6	10-137		26.8	30	
Dibenzofuran	0.626	0.0894	"	0.893	ND	70.1	10-147		31.9	30	Non-dir.
Diethyl phthalate	0.584	0.0894	"	0.893	ND	65.4	20-120		30.2	30	Non-dir.
Dimethyl phthalate	0.557	0.0894	"	0.893	ND	62.3	18-131		39.0	30	Non-dir.
Di-n-butyl phthalate	0.704	0.0894	"	0.893	ND	78.8	10-137		26.5	30	
Di-n-octyl phthalate	0.893	0.0894	"	0.893	ND	100	10-180		29.4	30	
Diphenylamine	0.799	0.179	"	0.893	ND	89.5	40-140		28.7	30	
Fluoranthene	0.801	0.0894	"	0.893	0.185	69.0	10-160		35.3	30	Non-dir.
Fluorene	0.614	0.0894	"	0.893	ND	68.7	10-157		34.2	30	Non-dir.
Hexachlorobenzene	0.632	0.0894	"	0.893	ND	70.8	10-137		33.1	30	Non-dir.
Hexachlorobutadiene	0.597	0.0894	"	0.893	ND	66.8	10-132		23.5	30	
Hexachlorocyclopentadiene	0.0829	0.0894	"	0.893	ND	9.28	10-106	Low Bias	72.7	30	Non-dir.
Hexachloroethane	0.480	0.0894	"	0.893	ND	53.8	10-110		29.4	30	
Indeno(1,2,3-cd)pyrene	0.991	0.0894	"	0.893	0.0866	101	10-144		26.8	30	
Isophorone	0.605	0.0894	"	0.893	ND	67.8	10-132		27.9	30	
Naphthalene	0.611	0.0894	"	0.893	ND	68.4	10-141		27.9	30	
Nitrobenzene	0.637	0.0894	"	0.893	ND	71.4	10-131		19.5	30	
N-Nitrosodimethylamine	0.547	0.0894	"	0.893	ND	61.3	10-126		20.9	30	
N-nitroso-di-n-propylamine	0.562	0.0894	"	0.893	ND	63.0	10-125		24.1	30	
N-Nitrosodiphenylamine	0.791	0.0894	"	0.893	ND	88.6	10-177		23.8	30	
Pentachlorophenol	ND	0.0894	"	0.893	ND		10-153	Low Bias		30	
Phenanthrene	0.753	0.0894	"	0.893	0.172	65.1	10-148		33.6	30	Non-dir.
Phenol	0.0500	0.0894	"	0.893	ND	5.60	10-126	Low Bias	0.656	30	
Pyrene	0.782	0.0894	"	0.893	0.163	69.2	10-165		30.8	30	Non-dir.
Surrogate: SURR: 2-Fluorophenol	*0.00714*		"	*1.79*		*0.400*	*20-108*				
Surrogate: SURR: Phenol-d6	*0.0936*		"	*1.79*		*5.24*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.627*		"	*0.893*		*70.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.578*		"	*0.893*		*64.7*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*0.00*		"	*1.79*			*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.652*		"	*0.893*		*73.0*	*24-116*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Blank (BK31385-BLK1)											
Prepared: 11/21/2023 Analyzed: 11/22/2023											
1,1-Biphenyl	ND	0.0416	mg/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.0830	"								
1,2,4-Trichlorobenzene	ND	0.0416	"								
1,2-Dichlorobenzene	ND	0.0416	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.0416	"								
1,3-Dichlorobenzene	ND	0.0416	"								
1,4-Dichlorobenzene	ND	0.0416	"								
2,3,4,6-Tetrachlorophenol	ND	0.0830	"								
2,4,5-Trichlorophenol	ND	0.0416	"								
2,4,6-Trichlorophenol	ND	0.0416	"								
2,4-Dichlorophenol	ND	0.0416	"								
2,4-Dimethylphenol	ND	0.0416	"								
2,4-Dinitrophenol	ND	0.0830	"								
2,4-Dinitrotoluene	ND	0.0416	"								
2,6-Dinitrotoluene	ND	0.0416	"								
2-Chloronaphthalene	ND	0.0416	"								
2-Chlorophenol	ND	0.0416	"								
2-Methylnaphthalene	ND	0.0416	"								
2-Methylphenol	ND	0.0416	"								
2-Nitroaniline	ND	0.0830	"								
2-Nitrophenol	ND	0.0416	"								
3- & 4-Methylphenols	ND	0.0416	"								
3,3-Dichlorobenzidine	ND	0.0416	"								
3-Nitroaniline	ND	0.0830	"								
4,6-Dinitro-2-methylphenol	ND	0.0830	"								
4-Bromophenyl phenyl ether	ND	0.0416	"								
4-Chloro-3-methylphenol	ND	0.0416	"								
4-Chloroaniline	ND	0.0416	"								
4-Chlorophenyl phenyl ether	ND	0.0416	"								
4-Nitroaniline	ND	0.0830	"								
4-Nitrophenol	ND	0.0830	"								
Acenaphthene	ND	0.0416	"								
Acenaphthylene	ND	0.0416	"								
Acetophenone	ND	0.0416	"								
Aniline	ND	0.166	"								
Anthracene	ND	0.0416	"								
Atrazine	ND	0.0416	"								
Benzaldehyde	ND	0.0416	"								
Benzidine	ND	0.166	"								
Benzo(a)anthracene	ND	0.0416	"								
Benzo(a)pyrene	ND	0.0416	"								
Benzo(b)fluoranthene	ND	0.0416	"								
Benzo(g,h,i)perylene	ND	0.0416	"								
Benzo(k)fluoranthene	ND	0.0416	"								
Benzoic acid	ND	0.0416	"								
Benzyl alcohol	ND	0.0416	"								
Benzyl butyl phthalate	ND	0.0416	"								
Bis(2-chloroethoxy)methane	ND	0.0416	"								
Bis(2-chloroethyl)ether	ND	0.0416	"								
Bis(2-chloroisopropyl)ether	ND	0.0416	"								
Bis(2-ethylhexyl)phthalate	ND	0.0416	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Blank (BK31385-BLK1)											
Caprolactam	ND	0.0830	mg/kg wet								
Carbazole	ND	0.0416	"								
Chrysene	ND	0.0416	"								
Dibenzo(a,h)anthracene	ND	0.0416	"								
Dibenzofuran	ND	0.0416	"								
Diethyl phthalate	ND	0.0416	"								
Dimethyl phthalate	ND	0.0416	"								
Di-n-butyl phthalate	ND	0.0416	"								
Di-n-octyl phthalate	ND	0.0416	"								
Diphenylamine	ND	0.0830	"								
Fluoranthene	ND	0.0416	"								
Fluorene	ND	0.0416	"								
Hexachlorobenzene	ND	0.0416	"								
Hexachlorobutadiene	ND	0.0416	"								
Hexachlorocyclopentadiene	ND	0.0416	"								
Hexachloroethane	ND	0.0416	"								
Indeno(1,2,3-cd)pyrene	ND	0.0416	"								
Isophorone	ND	0.0416	"								
Naphthalene	ND	0.0416	"								
Nitrobenzene	ND	0.0416	"								
N-Nitrosodimethylamine	ND	0.0416	"								
N-nitroso-di-n-propylamine	ND	0.0416	"								
N-Nitrosodiphenylamine	ND	0.0416	"								
Pentachlorophenol	ND	0.0416	"								
Phenanthrene	ND	0.0416	"								
Phenol	ND	0.0416	"								
Pyrene	ND	0.0416	"								
Surrogate: SURR: 2-Fluorophenol	*1.46*		"	*1.66*		*87.8*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.40*		"	*1.66*		*84.6*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.699*		"	*0.831*		*84.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.668*		"	*0.831*		*80.4*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*1.84*		"	*1.66*		*111*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.831*		"	*0.831*		*100*	*24-116*				

Prepared: 11/21/2023 Analyzed: 11/22/2023

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
LCS (BK31385-BS1)									Prepared: 11/21/2023 Analyzed: 11/22/2023		
1,1-Biphenyl	0.559	0.0416	mg/kg wet	0.831		67.3	18-111				
1,2,4,5-Tetrachlorobenzene	0.643	0.0830	"	0.831		77.4	21-131				
1,2,4-Trichlorobenzene	0.704	0.0416	"	0.831		84.8	10-140				
1,2-Dichlorobenzene	0.534	0.0416	"	0.831		64.3	34-108				
1,2-Diphenylhydrazine (as Azobenzene)	0.499	0.0416	"	0.831		60.0	17-137				
1,3-Dichlorobenzene	0.533	0.0416	"	0.831		64.2	33-110				
1,4-Dichlorobenzene	0.537	0.0416	"	0.831		64.6	32-104				
2,3,4,6-Tetrachlorophenol	0.552	0.0830	"	0.831		66.5	30-130				
2,4,5-Trichlorophenol	0.653	0.0416	"	0.831		78.6	27-118				
2,4,6-Trichlorophenol	0.659	0.0416	"	0.831		79.4	31-120				
2,4-Dichlorophenol	0.658	0.0416	"	0.831		79.3	20-127				
2,4-Dimethylphenol	0.458	0.0416	"	0.831		55.2	14-132				
2,4-Dinitrophenol	0.889	0.0830	"	0.831		107	10-171				
2,4-Dinitrotoluene	0.777	0.0416	"	0.831		93.6	34-131				
2,6-Dinitrotoluene	0.753	0.0416	"	0.831		90.6	31-128				
2-Chloronaphthalene	0.536	0.0416	"	0.831		64.5	31-117				
2-Chlorophenol	0.499	0.0416	"	0.831		60.1	33-113				
2-Methylnaphthalene	0.595	0.0416	"	0.831		71.7	12-138				
2-Methylphenol	0.542	0.0416	"	0.831		65.2	10-136				
2-Nitroaniline	0.630	0.0830	"	0.831		75.8	27-132				
2-Nitrophenol	0.739	0.0416	"	0.831		88.9	17-129				
3- & 4-Methylphenols	0.481	0.0416	"	0.831		57.9	29-103				
3,3-Dichlorobenzidine	0.458	0.0416	"	0.831		55.1	22-149				
3-Nitroaniline	0.471	0.0830	"	0.831		56.7	20-133				
4,6-Dinitro-2-methylphenol	1.18	0.0830	"	0.831		142	10-143				
4-Bromophenyl phenyl ether	0.742	0.0416	"	0.831		89.3	29-120				
4-Chloro-3-methylphenol	0.678	0.0416	"	0.831		81.6	24-129				
4-Chloroaniline	0.332	0.0416	"	0.831		40.0	10-132				
4-Chlorophenyl phenyl ether	0.650	0.0416	"	0.831		78.2	27-124				
4-Nitroaniline	0.473	0.0830	"	0.831		56.9	16-128				
4-Nitrophenol	0.696	0.0830	"	0.831		83.8	10-141				
Acenaphthene	0.520	0.0416	"	0.831		62.6	30-121				
Acenaphthylene	0.493	0.0416	"	0.831		59.3	30-115				
Acetophenone	0.564	0.0416	"	0.831		67.9	20-112				
Aniline	0.335	0.166	"	0.831		40.4	10-119				
Anthracene	0.564	0.0416	"	0.831		68.0	34-118				
Atrazine	0.651	0.0416	"	0.831		78.4	26-112				
Benzaldehyde	0.452	0.0416	"	0.831		54.4	21-100				
Benzo(a)anthracene	0.578	0.0416	"	0.831		69.6	32-122				
Benzo(a)pyrene	0.620	0.0416	"	0.831		74.6	29-133				
Benzo(b)fluoranthene	0.618	0.0416	"	0.831		74.4	25-133				
Benzo(g,h,i)perylene	0.726	0.0416	"	0.831		87.4	10-143				
Benzo(k)fluoranthene	0.658	0.0416	"	0.831		79.2	25-128				
Benzoic acid	0.300	0.0416	"	0.831		36.2	10-140				
Benzyl alcohol	0.526	0.0416	"	0.831		63.3	30-115				
Benzyl butyl phthalate	0.434	0.0416	"	0.831		52.2	26-126				
Bis(2-chloroethoxy)methane	0.608	0.0416	"	0.831		73.2	19-132				
Bis(2-chloroethyl)ether	0.547	0.0416	"	0.831		65.9	19-125				
Bis(2-chloroisopropyl)ether	0.505	0.0416	"	0.831		60.8	20-135				
Bis(2-ethylhexyl)phthalate	0.448	0.0416	"	0.831		53.9	10-155				
Caprolactam	0.678	0.0830	"	0.831		81.6	10-127				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

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Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
LCS (BK31385-BS1)									Prepared: 11/21/2023 Analyzed: 11/22/2023		
Carbazole	0.521	0.0416	mg/kg wet	0.831		62.8	35-123				
Chrysene	0.592	0.0416	"	0.831		71.2	32-123				
Dibenzo(a,h)anthracene	0.715	0.0416	"	0.831		86.0	10-136				
Dibenzofuran	0.560	0.0416	"	0.831		67.4	29-121				
Diethyl phthalate	0.514	0.0416	"	0.831		61.9	34-116				
Dimethyl phthalate	0.557	0.0416	"	0.831		67.0	35-124				
Di-n-butyl phthalate	0.485	0.0416	"	0.831		58.4	31-116				
Di-n-octyl phthalate	0.456	0.0416	"	0.831		54.9	26-136				
Diphenylamine	0.626	0.0830	"	0.831		75.4	40-140				
Fluoranthene	0.601	0.0416	"	0.831		72.3	33-122				
Fluorene	0.552	0.0416	"	0.831		66.4	29-123				
Hexachlorobenzene	0.473	0.0416	"	0.831		57.0	21-124				
Hexachlorobutadiene	0.822	0.0416	"	0.831		98.9	10-149				
Hexachlorocyclopentadiene	0.406	0.0416	"	0.831		48.8	10-129				
Hexachloroethane	0.518	0.0416	"	0.831		62.4	28-108				
Indeno(1,2,3-cd)pyrene	0.697	0.0416	"	0.831		83.9	10-135				
Isophorone	0.653	0.0416	"	0.831		78.6	20-132				
Naphthalene	0.537	0.0416	"	0.831		64.7	23-124				
Nitrobenzene	0.687	0.0416	"	0.831		82.7	13-132				
N-Nitrosodimethylamine	0.523	0.0416	"	0.831		63.0	11-129				
N-nitroso-di-n-propylamine	0.588	0.0416	"	0.831		70.8	24-119				
N-Nitrosodiphenylamine	0.606	0.0416	"	0.831		72.9	22-152				
Pentachlorophenol	0.675	0.0416	"	0.831		81.3	10-139				
Phenanthrene	0.569	0.0416	"	0.831		68.5	33-123				
Phenol	0.608	0.0416	"	0.831		73.2	23-115				
Pyrene	0.543	0.0416	"	0.831		65.4	32-130				
Surrogate: SURR: 2-Fluorophenol	*1.03*		*"*	*1.66*		*61.9*	*20-108*				
Surrogate: SURR: Phenol-d6	*1.06*		*"*	*1.66*		*63.8*	*23-114*				
Surrogate: SURR: Nitrobenzene-d5	*0.649*		*"*	*0.831*		*78.2*	*22-108*				
Surrogate: SURR: 2-Fluorobiphenyl	*0.566*		*"*	*0.831*		*68.2*	*21-113*				
Surrogate: SURR: 2,4,6-Tribromophenol	*2.05*		*"*	*1.66*		*123*	*19-110*				
Surrogate: SURR: Terphenyl-d14	*0.633*		*"*	*0.831*		*76.2*	*24-116*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31066 - EPA 3550C											
Blank (BK31066-BLK1)								Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	ND	0.0198	mg/kg								
Surrogate: 1,4-Dioxane-d8	*0.343*		"	*0.495*		*69.4*	*39-127.5*				
LCS (BK31066-BS1)								Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.572	0.0198	mg/kg	0.495		116	40-130				
Surrogate: 1,4-Dioxane-d8	*0.369*		"	*0.495*		*74.6*	*39-127.5*				
Matrix Spike (BK31066-MS1)	*Source sample: 23K0660-06 (Matrix Spike)							Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.546	0.0198	mg/kg	0.495	ND	110	40-130				
Surrogate: 1,4-Dioxane-d8	*0.369*		"	*0.495*		*74.5*	*40-130*				
Matrix Spike Dup (BK31066-MSD1)	*Source sample: 23K0660-06 (Matrix Spike Dup)							Prepared & Analyzed: 11/16/2023			
1,4-Dioxane	0.548	0.0198	mg/kg	0.495	ND	111	40-130		0.362	30	
Surrogate: 1,4-Dioxane-d8	*0.331*		"	*0.495*		*66.9*	*40-130*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
Blank (BK31292-BLK1)											Prepared: 11/20/2023 Analyzed: 11/22/2023
Perfluorobutanesulfonic acid (PFBS)	ND	0.175	ug/kg wet								
Perfluorohexanoic acid (PFHxA)	ND	0.198	"								
Perfluoroheptanoic acid (PFHpA)	ND	0.198	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.181	"								
Perfluorooctanoic acid (PFOA)	ND	0.198	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.184	"								
Perfluorononanoic acid (PFNA)	ND	0.198	"								
Perfluorodecanoic acid (PFDA)	ND	0.198	"								
Perfluoroundecanoic acid (PFUnA)	ND	0.198	"								
Perfluorododecanoic acid (PFDoA)	ND	0.198	"								
Perfluorotridecanoic acid (PFTrDA)	ND	0.198	"								
Perfluorotetradecanoic acid (PFTA)	ND	0.198	"								
N-MeFOSAA	ND	0.198	"								
N-EtFOSAA	ND	0.198	"								
Perfluoropentanoic acid (PFPeA)	ND	0.396	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.198	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.198	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.191	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	0.752	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	0.760	"								
Perfluoro-n-butanoic acid (PFBA)	ND	0.792	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.352	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.396	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.396	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.396	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.186	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	0.743	"								
HFPO-DA (Gen-X)	ND	0.792	"								
11CL-PF3OUdS	ND	0.749	"								
9CL-PF3ONS	ND	0.741	"								
ADONA	ND	0.749	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	0.192	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.190	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	0.990	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	4.95	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	4.95	"								
N-MeFOSE	ND	1.98	"								
N-MeFOSA	ND	0.198	"								
N-EtFOSE	ND	1.98	"								
N-EtFOSA	ND	0.198	"								
Surrogate: M3PFBS	*1.74*		"	*1.92*		*90.8*	*25-150*				
Surrogate: M5PFHxA	*2.31*		"	*2.06*		*112*	*25-150*				
Surrogate: M4PFHpA	*2.87*		"	*2.06*		*139*	*25-150*				
Surrogate: M3PFHxS	*2.68*		"	*1.96*		*137*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.40*		"	*2.06*		*116*	*25-150*				
Surrogate: M6PFDA	*0.945*		"	*1.03*		*91.8*	*25-150*				
Surrogate: M7PFUdA	*0.961*		"	*1.03*		*93.3*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
Blank (BK31292-BLK1)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.787*		*ug/kg wet*	*1.03*		*76.4*	*25-150*				
Surrogate: M2PFTeDA	*0.664*		*"*	*1.03*		*64.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.187*		*"*	*8.27*		*2.26*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.51*		*"*	*1.98*		*76.5*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.270*		*"*	*4.12*		*6.54*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.30*		*"*	*2.06*		*62.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.62*		*"*	*4.12*		*39.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.74*		*"*	*4.12*		*42.2*	*25-150*				
Surrogate: M2-6:2 FTS	*2.55*		*"*	*3.92*		*65.1*	*25-200*				
Surrogate: M2-8:2 FTS	*1.89*		*"*	*3.96*		*47.8*	*25-200*				
Surrogate: M9PFNA	*1.02*		*"*	*1.03*		*99.1*	*25-150*				
Surrogate: M2-4:2 FTS	*2.93*		*"*	*3.87*		*75.8*	*25-150*				
Surrogate: d-N-MeFOSA	*0.903*		*"*	*2.06*		*43.7*	*25-150*				
Surrogate: d-N-EtFOSA	*0.817*		*"*	*2.06*		*39.6*	*25-150*				
Surrogate: M3HFPO-DA	*10.2*		*"*	*8.27*		*124*	*25-150*				
Surrogate: d9-N-EtFOSE	*4.01*		*"*	*20.6*		*19.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*6.87*		*"*	*20.6*		*33.3*	*25-150*				
LCS (BK31292-BS1)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	3.46	0.175	ug/kg wet	3.50		98.7	50-150				
Perfluorohexanoic acid (PFHxA)	3.69	0.198	"	3.96		93.3	50-150				
Perfluoroheptanoic acid (PFHpA)	3.25	0.198	"	3.96		82.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	3.25	0.181	"	3.62		89.8	50-150				
Perfluorooctanoic acid (PFOA)	3.85	0.198	"	3.96		97.3	50-150				
Perfluorooctanesulfonic acid (PFOS)	3.66	0.184	"	3.68		99.4	50-150				
Perfluorononanoic acid (PFNA)	4.03	0.198	"	3.96		102	50-150				
Perfluorodecanoic acid (PFDA)	3.39	0.198	"	3.96		85.5	50-150				
Perfluoroundecanoic acid (PFUnA)	4.32	0.198	"	3.96		109	50-150				
Perfluorododecanoic acid (PFDoA)	4.32	0.198	"	3.96		109	50-150				
Perfluorotridecanoic acid (PFTrDA)	4.53	0.198	"	3.96		114	50-150				
Perfluorotetradecanoic acid (PFTA)	3.38	0.198	"	3.96		85.4	50-150				
N-MeFOSAA	3.68	0.198	"	3.96		93.0	50-150				
N-EtFOSAA	4.22	0.198	"	3.96		106	50-150				
Perfluoropentanoic acid (PFPeA)	6.96	0.396	"	7.92		87.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	4.28	0.198	"	3.96		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	4.25	0.198	"	3.78		112	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	3.36	0.191	"	3.82		87.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	15.7	0.752	"	15.0		104	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	16.6	0.760	"	15.2		109	50-150				
Perfluoro-n-butanoic acid (PFBA)	9.77	0.792	"	15.8		61.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	7.24	0.352	"	7.05		103	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	5.03	0.396	"	7.92		63.6	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	1.95	0.396	"	7.92		24.6	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	21.3	0.396	"	7.92		268	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	3.55	0.186	"	3.72		95.4	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
LCS (BK31292-BS1)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	14.0	0.743	ug/kg wet	14.9		94.3	50-150				
HFPO-DA (Gen-X)	6.65	0.792	"	7.92		83.9	50-150				
11CL-PF3OUdS	5.63	0.749	"	7.49		75.3	50-150				
9CL-PF3ONS	7.07	0.741	"	7.41		95.5	50-150				
ADONA	8.17	0.749	"	7.49		109	50-150				
Perfluorododecanesulfonic acid (PFDoS)	2.88	0.192	"	3.84		75.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	3.79	0.190	"	3.80		99.7	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	5.88	0.990	"	15.8		37.1	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	90.6	4.95	"	79.2		114	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	72.5	4.95	"	79.2		91.6	50-150				
N-MeFOSE	41.0	1.98	"	39.6		103	50-150				
N-MeFOSA	3.52	0.198	"	3.96		88.8	50-150				
N-EtFOSE	44.1	1.98	"	39.6		111	50-150				
N-EtFOSA	2.67	0.198	"	3.96		67.3	50-150				
Surrogate: M3PFBS	*1.42*		"	*1.92*		*73.8*	*25-150*				
Surrogate: M5PFHxA	*2.15*		"	*2.06*		*104*	*25-150*				
Surrogate: M4PFHpA	*2.89*		"	*2.06*		*140*	*25-150*				
Surrogate: M3PFHxS	*2.68*		"	*1.96*		*137*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.21*		"	*2.06*		*107*	*25-150*				
Surrogate: M6PFDA	*1.08*		"	*1.03*		*104*	*25-150*				
Surrogate: M7PFUdA	*0.946*		"	*1.03*		*91.8*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.803*		"	*1.03*		*78.0*	*25-150*				
Surrogate: M2PFTeDA	*0.628*		"	*1.03*		*61.0*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.168*		"	*8.27*		*2.04*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.58*		"	*1.98*		*79.8*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.196*		"	*4.12*		*4.76*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.46*		"	*2.06*		*70.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*1.87*		"	*4.12*		*45.4*	*25-150*				
Surrogate: d5-N-EtFOSAA	*1.89*		"	*4.12*		*45.8*	*25-150*				
Surrogate: M2-6:2 FTS	*2.86*		"	*3.92*		*72.9*	*25-200*				
Surrogate: M2-8:2 FTS	*2.02*		"	*3.96*		*50.9*	*25-200*				
Surrogate: M9PFNA	*1.14*		"	*1.03*		*111*	*25-150*				
Surrogate: M2-4:2 FTS	*2.72*		"	*3.87*		*70.1*	*25-150*				
Surrogate: d-N-MeFOSA	*0.987*		"	*2.06*		*47.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.05*		"	*2.06*		*50.7*	*25-150*				
Surrogate: M3HFPO-DA	*9.82*		"	*8.27*		*119*	*25-150*				
Surrogate: d9-N-EtFOSE	*5.54*		"	*20.6*		*26.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*8.77*		"	*20.6*		*42.5*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
LCS (BK31292-BS2)								Prepared: 11/20/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	0.652	0.175	ug/kg wet	0.701		93.1	50-150				
Perfluorohexanoic acid (PFHxA)	0.707	0.198	"	0.792		89.2	50-150				
Perfluoroheptanoic acid (PFHpA)	0.591	0.198	"	0.792		74.7	50-150				
Perfluorohexanesulfonic acid (PFHxS)	0.695	0.181	"	0.725		95.9	50-150				
Perfluorooctanoic acid (PFOA)	0.788	0.198	"	0.792		99.5	50-150				
Perfluorooctanesulfonic acid (PFOS)	0.713	0.184	"	0.737		96.7	50-150				
Perfluorononanoic acid (PFNA)	0.894	0.198	"	0.792		113	50-150				
Perfluorodecanoic acid (PFDA)	0.747	0.198	"	0.792		94.2	50-150				
Perfluoroundecanoic acid (PFUnA)	0.822	0.198	"	0.792		104	50-150				
Perfluorododecanoic acid (PFDoA)	0.769	0.198	"	0.792		97.1	50-150				
Perfluorotridecanoic acid (PFTrDA)	0.901	0.198	"	0.792		114	50-150				
Perfluorotetradecanoic acid (PFTA)	0.623	0.198	"	0.792		78.6	50-150				
N-MeFOSAA	0.760	0.198	"	0.792		95.9	50-150				
N-EtFOSAA	0.785	0.198	"	0.792		99.1	50-150				
Perfluoropentanoic acid (PFPeA)	1.43	0.396	"	1.58		90.1	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	0.979	0.198	"	0.792		124	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.832	0.198	"	0.756		110	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	0.587	0.191	"	0.764		76.8	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	3.36	0.752	"	3.01		112	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	3.34	0.760	"	3.04		110	50-150				
Perfluoro-n-butanoic acid (PFBA)	2.18	0.792	"	3.17		68.7	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	1.41	0.352	"	1.41		99.7	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	1.08	0.396	"	1.58		68.1	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	0.173	0.396	"	1.58		10.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	3.62	0.396	"	1.58		229	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	0.709	0.186	"	0.745		95.2	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	2.72	0.743	"	2.97		91.5	50-150				
HFPO-DA (Gen-X)	1.12	0.792	"	1.58		70.9	50-150				
11CL-PF3OUdS	1.09	0.749	"	1.50		73.1	50-150				
9CL-PF3ONS	1.33	0.741	"	1.48		89.7	50-150				
ADONA	1.31	0.749	"	1.50		87.4	50-150				
Perfluorododecanesulfonic acid (PFDoS)	0.621	0.192	"	0.768		80.8	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	0.825	0.190	"	0.760		109	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	0.903	0.990	"	3.17		28.5	50-150	Low Bias			
3-Perfluoropentyl propanoic acid (FPePA)	14.6	4.95	"	15.8		92.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	12.1	4.95	"	15.8		76.4	50-150				
N-MeFOSE	8.44	1.98	"	7.92		107	50-150				
N-MeFOSA	0.774	0.198	"	0.792		97.7	50-150				
N-EtFOSE	8.09	1.98	"	7.92		102	50-150				
N-EtFOSA	0.606	0.198	"	0.792		76.5	50-150				
Surrogate: M3PFBS	*2.06*		"	*1.92*		*107*	*25-150*				
Surrogate: M5PFHxA	*2.67*		"	*2.06*		*129*	*25-150*				
Surrogate: M4PFHpA	*2.95*		"	*2.06*		*143*	*25-150*				
Surrogate: M3PFHxS	*2.61*		"	*1.96*		*134*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*2.35*		"	*2.06*		*114*	*25-150*				
Surrogate: M6PFDA	*1.10*		"	*1.03*		*106*	*25-150*				
Surrogate: M7PFUdA	*0.994*		"	*1.03*		*96.5*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
LCS (BK31292-BS2)											
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*0.848*		*ug/kg wet*	*1.03*		*82.3*	*25-150*				
Surrogate: M2PFTeDA	*0.652*		*"*	*1.03*		*63.3*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.221*		*"*	*8.27*		*2.67*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*1.79*		*"*	*1.98*		*90.6*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.788*		*"*	*4.12*		*19.1*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*1.42*		*"*	*2.06*		*68.9*	*10-150*				
Surrogate: d3-N-MeFOSAA	*2.10*		*"*	*4.12*		*51.0*	*25-150*				
Surrogate: d5-N-EtFOSAA	*2.28*		*"*	*4.12*		*55.3*	*25-150*				
Surrogate: M2-6:2 FTS	*2.69*		*"*	*3.92*		*68.6*	*25-200*				
Surrogate: M2-8:2 FTS	*2.13*		*"*	*3.96*		*53.9*	*25-200*				
Surrogate: M9PFNA	*1.11*		*"*	*1.03*		*108*	*25-150*				
Surrogate: M2-4:2 FTS	*2.90*		*"*	*3.87*		*74.8*	*25-150*				
Surrogate: d-N-MeFOSA	*1.10*		*"*	*2.06*		*53.4*	*25-150*				
Surrogate: d-N-EtFOSA	*1.06*		*"*	*2.06*		*51.4*	*25-150*				
Surrogate: M3HFPO-DA	*12.1*		*"*	*8.27*		*146*	*25-150*				
Surrogate: d9-N-EtFOSE	*7.92*		*"*	*20.6*		*38.4*	*25-150*				
Surrogate: d7-N-MeFOSE	*10.5*		*"*	*20.6*		*50.8*	*25-150*				
Duplicate (BK31292-DUP1)	*Source sample: 23K0980-08 (23SP6 (22.5-25 ft))										
Perfluorobutanesulfonic acid (PFBS)	ND	0.259	ug/kg dry		ND					30	
Perfluorohexanoic acid (PFHxA)	ND	0.292	"		ND					30	
Perfluoroheptanoic acid (PFHpA)	ND	0.292	"		ND					30	
Perfluorohexanesulfonic acid (PFHxS)	ND	0.268	"		ND					30	
Perfluorooctanoic acid (PFOA)	ND	0.292	"		ND					30	
Perfluorooctanesulfonic acid (PFOS)	ND	0.272	"		ND					30	
Perfluorononanoic acid (PFNA)	ND	0.292	"		ND					30	
Perfluorodecanoic acid (PFDA)	ND	0.292	"		ND					30	
Perfluoroundecanoic acid (PFUnA)	ND	0.292	"		ND					30	
Perfluorododecanoic acid (PFDoA)	ND	0.292	"		ND					30	
Perfluorotridecanoic acid (PFTrDA)	ND	0.292	"		ND					30	
Perfluorotetradecanoic acid (PFTA)	ND	0.292	"		ND					30	
N-MeFOSAA	ND	0.292	"		ND					30	
N-EtFOSAA	ND	0.292	"		ND					30	
Perfluoropentanoic acid (PFPeA)	ND	0.585	"		ND					30	
Perfluoro-1-octanesulfonamide (FOSA)	ND	0.292	"		ND					30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.292	"		ND					30	
Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.282	"		ND					30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	1.11	"		ND					30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	1.12	"		ND					30	
Perfluoro-n-butanoic acid (PFBA)	ND	1.17	"		ND					30	
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	0.520	"		ND					30	
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	0.585	"		ND					30	
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	0.585	"		ND					30	
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	0.585	"		ND					30	
Perfluoro-1-pentanesulfonate (PFPeS)	ND	0.275	"		ND					30	

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31292 - EPA 1633 Prep											
Duplicate (BK31292-DUP1)	*Source sample: 23K0980-08 (23SP6 (22.5-25 ft))								Prepared: 11/20/2023 Analyzed: 11/22/2023		
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	1.10	ug/kg dry		ND					30	
HFPO-DA (Gen-X)	ND	1.17	"		ND					30	
11CL-PF3OUdS	ND	1.11	"		ND					30	
9CL-PF3ONS	ND	1.09	"		ND					30	
ADONA	ND	1.11	"		ND					30	
Perfluorododecanesulfonic acid (PFDoS)	ND	0.284	"		ND					30	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.281	"		ND					30	
3-Perfluoropropyl propanoic acid (FPrPA)	ND	1.46	"		ND					30	
3-Perfluoropentyl propanoic acid (FPePA)	ND	7.31	"		ND					30	
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	7.31	"		ND					30	
N-MeFOSE	ND	2.92	"		ND					30	
N-MeFOSA	ND	0.292	"		ND					30	
N-EtFOSE	ND	2.92	"		ND					30	
N-EtFOSA	ND	0.292	"		ND					30	
Surrogate: M3PFBS	*2.21*		"	*2.84*		*77.8*	*25-150*				
Surrogate: M5PFHxA	*3.25*		"	*3.05*		*107*	*25-150*				
Surrogate: M4PFHpA	*3.89*		"	*3.05*		*128*	*25-150*				
Surrogate: M3PFHxS	*3.98*		"	*2.89*		*138*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*3.40*		"	*3.05*		*111*	*25-150*				
Surrogate: M6PFDA	*1.98*		"	*1.52*		*131*	*25-150*				
Surrogate: M7PFUdA	*2.30*		"	*1.52*		*151*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*1.67*		"	*1.52*		*110*	*25-150*				
Surrogate: M2PFTeDA	*1.06*		"	*1.52*		*69.8*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.291*		"	*12.2*		*2.38*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*2.98*		"	*2.92*		*102*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*0.400*		"	*6.09*		*6.57*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*2.40*		"	*3.05*		*78.7*	*10-150*				
Surrogate: d3-N-MeFOSAA	*3.73*		"	*6.09*		*61.3*	*25-150*				
Surrogate: d5-N-EtFOSAA	*4.06*		"	*6.09*		*66.8*	*25-150*				
Surrogate: M2-6:2 FTS	*4.07*		"	*5.79*		*70.4*	*25-200*				
Surrogate: M2-8:2 FTS	*4.12*		"	*5.85*		*70.5*	*25-200*				
Surrogate: M9PFNA	*1.90*		"	*1.52*		*125*	*25-150*				
Surrogate: M2-4:2 FTS	*3.79*		"	*5.72*		*66.2*	*25-150*				
Surrogate: d-N-MeFOSA	*1.97*		"	*3.05*		*64.8*	*25-150*				
Surrogate: d-N-EtFOSA	*1.39*		"	*3.05*		*45.7*	*25-150*				
Surrogate: M3HFPO-DA	*14.6*		"	*12.2*		*120*	*25-150*				
Surrogate: d9-N-EtFOSE	*6.93*		"	*30.5*		*22.7*	*25-150*				
Surrogate: d7-N-MeFOSE	*11.2*		"	*30.5*		*36.6*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
Blank (BK31413-BLK1)											
Perfluorobutanesulfonic acid (PFBS)	ND	3.54	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	4.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	4.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	3.66	"								
Perfluorooctanoic acid (PFOA)	ND	4.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	3.72	"								
Perfluorononanoic acid (PFNA)	ND	4.00	"								
Perfluorodecanoic acid (PFDA)	ND	4.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	4.00	"								
Perfluorododecanoic acid (PFDoA)	ND	4.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	4.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	4.00	"								
N-MeFOSAA	ND	4.00	"								
N-EtFOSAA	ND	4.00	"								
Perfluoropentanoic acid (PFPeA)	ND	8.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	4.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	3.82	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	3.86	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	15.2	"								
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	15.4	"								
Perfluoro-n-butanoic acid (PFBA)	1.24	16.0	"								
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND	7.12	"								
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND	8.00	"								
Perfluoro-4-oxapentanoic acid (PFMPA)	ND	8.00	"								
Perfluoro-5-oxahexanoic acid (PFMBA)	ND	8.00	"								
Perfluoro-1-pentanesulfonate (PFPeS)	ND	3.76	"								
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND	15.0	"								
HFPO-DA (Gen-X)	ND	16.0	"								
11CL-PF3OUdS	ND	15.1	"								
9CL-PF3ONS	ND	15.0	"								
ADONA	ND	15.1	"								
Perfluorododecanesulfonic acid (PFDoS)	ND	3.88	"								
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	3.84	"								
3-Perfluoropropyl propanoic acid (FPrPA)	ND	10.0	"								
3-Perfluoropentyl propanoic acid (FPePA)	ND	50.0	"								
3-Perfluoroheptyl propanoic acid (FHpPA)	ND	50.0	"								
N-MeFOSE	ND	40.0	"								
N-MeFOSA	ND	4.00	"								
N-EtFOSE	ND	40.0	"								
N-EtFOSA	ND	4.00	"								
Surrogate: M3PFBS	*57.5*		"	*46.6*		*124*	*25-150*				
Surrogate: M5PFHxA	*56.7*		"	*50.0*		*114*	*25-150*				
Surrogate: M4PFHpA	*64.6*		"	*50.0*		*129*	*25-150*				
Surrogate: M3PFHxS	*62.6*		"	*47.4*		*132*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*51.1*		"	*50.0*		*102*	*25-150*				
Surrogate: M6PFDA	*28.7*		"	*25.0*		*115*	*25-150*				
Surrogate: M7PFUdA	*32.7*		"	*25.0*		*131*	*25-150*				

Prepared: 11/21/2023 Analyzed: 11/22/2023

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
Blank (BK31413-BLK1)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.8*		*ng/L*	*25.0*		*107*	*25-150*				
Surrogate: M2PFTeDA	*19.1*		*"*	*25.0*		*76.5*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*6.61*		*"*	*200*		*3.30*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*44.7*		*"*	*47.9*		*93.4*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*61.4*		*"*	*100*		*61.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*42.1*		*"*	*50.0*		*84.3*	*10-150*				
Surrogate: d3-N-MeFOSAA	*60.7*		*"*	*100*		*60.7*	*25-150*				
Surrogate: d5-N-EtFOSAA	*70.6*		*"*	*100*		*70.6*	*25-150*				
Surrogate: M2-6:2 FTS	*52.9*		*"*	*95.1*		*55.6*	*25-200*				
Surrogate: M2-8:2 FTS	*62.9*		*"*	*96.0*		*65.5*	*25-200*				
Surrogate: M9PFNA	*27.9*		*"*	*25.0*		*112*	*25-150*				
Surrogate: M2-4:2 FTS	*68.1*		*"*	*93.8*		*72.6*	*25-150*				
Surrogate: d-N-MeFOSA	*30.6*		*"*	*50.0*		*61.2*	*25-150*				
Surrogate: d-N-EtFOSA	*25.7*		*"*	*50.0*		*51.4*	*25-150*				
Surrogate: M3HFPO-DA	*266*		*"*	*200*		*133*	*25-150*				
Surrogate: d9-N-EtFOSE	*185*		*"*	*500*		*37.1*	*25-150*				
Surrogate: d7-N-MeFOSE	*290*		*"*	*500*		*58.0*	*25-150*				
LCS (BK31413-BS1)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	63.8	3.54	ng/L	70.8		90.1	50-150				
Perfluorohexanoic acid (PFHxA)	74.0	4.00	"	80.0		92.5	50-150				
Perfluoroheptanoic acid (PFHpA)	64.3	4.00	"	80.0		80.3	50-150				
Perfluorohexanesulfonic acid (PFHxS)	12.7	3.66	"	73.2		17.3	50-150	Low Bias			
Perfluorooctanoic acid (PFOA)	72.5	4.00	"	80.0		90.7	50-150				
Perfluorooctanesulfonic acid (PFOS)	22.0	3.72	"	74.4		29.5	50-150	Low Bias			
Perfluorononanoic acid (PFNA)	86.4	4.00	"	80.0		108	50-150				
Perfluorodecanoic acid (PFDA)	81.7	4.00	"	80.0		102	50-150				
Perfluoroundecanoic acid (PFUnA)	82.2	4.00	"	80.0		103	50-150				
Perfluorododecanoic acid (PFDoA)	79.3	4.00	"	80.0		99.2	50-150				
Perfluorotridecanoic acid (PFTrDA)	97.0	4.00	"	80.0		121	50-150				
Perfluorotetradecanoic acid (PFTA)	68.9	4.00	"	80.0		86.1	50-150				
N-MeFOSAA	8.67	4.00	"	80.0		10.8	50-150	Low Bias			
N-EtFOSAA	7.42	4.00	"	80.0		9.28	50-150	Low Bias			
Perfluoropentanoic acid (PFPeA)	144	8.00	"	160		89.9	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	86.4	4.00	"	80.0		108	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	72.8	3.82	"	76.4		95.3	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	76.1	3.86	"	77.2		98.6	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	338	15.2	"	304		111	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	335	15.4	"	307		109	50-150				
Perfluoro-n-butanoic acid (PFBA)	226	16.0	"	320		70.5	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	141	7.12	"	142		99.1	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	125	8.00	"	160		78.3	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	19.4	8.00	"	160		12.1	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	245	8.00	"	160		153	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	64.3	3.76	"	75.2		85.5	50-150				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
LCS (BK31413-BS1)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	269	15.0	ng/L	300		89.8	50-150				
HFPO-DA (Gen-X)	143	16.0	"	160		89.3	50-150				
11CL-PF3OUdS	162	15.1	"	151		107	50-150				
9CL-PF3ONS	176	15.0	"	150		118	50-150				
ADONA	139	15.1	"	151		92.2	50-150				
Perfluorododecanesulfonic acid (PFDoS)	55.2	3.88	"	77.6		71.1	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	95.7	3.84	"	76.8		125	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	163	10.0	"	320		50.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	1470	50.0	"	1600		92.0	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	1440	50.0	"	1600		89.9	50-150				
N-MeFOSE	840	40.0	"	800		105	50-150				
N-MeFOSA	72.1	4.00	"	80.0		90.1	50-150				
N-EtFOSE	792	40.0	"	800		99.0	50-150				
N-EtFOSA	76.0	4.00	"	80.0		95.0	50-150				
Surrogate: M3PFBS	*53.5*		"	*46.6*		*115*	*25-150*				
Surrogate: M5PFHxA	*58.7*		"	*50.0*		*117*	*25-150*				
Surrogate: M4PFHpA	*63.3*		"	*50.0*		*127*	*25-150*				
Surrogate: M3PFHxS	*61.3*		"	*47.4*		*129*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*58.1*		"	*50.0*		*116*	*25-150*				
Surrogate: M6PFDA	*26.2*		"	*25.0*		*105*	*25-150*				
Surrogate: M7PFUdA	*32.1*		"	*25.0*		*129*	*25-150*				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*29.4*		"	*25.0*		*117*	*25-150*				
Surrogate: M2PFTeDA	*19.1*		"	*25.0*		*76.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.47*		"	*200*		*2.74*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*46.5*		"	*47.9*		*97.2*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*48.8*		"	*100*		*48.8*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*42.6*		"	*50.0*		*85.2*	*10-150*				
Surrogate: d3-N-MeFOSAA	*64.2*		"	*100*		*64.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*67.7*		"	*100*		*67.7*	*25-150*				
Surrogate: M2-6:2 FTS	*58.3*		"	*95.1*		*61.3*	*25-200*				
Surrogate: M2-8:2 FTS	*61.7*		"	*96.0*		*64.3*	*25-200*				
Surrogate: M9PFNA	*28.6*		"	*25.0*		*114*	*25-150*				
Surrogate: M2-4:2 FTS	*68.8*		"	*93.8*		*73.4*	*25-150*				
Surrogate: d-N-MeFOSA	*31.2*		"	*50.0*		*62.4*	*25-150*				
Surrogate: d-N-EtFOSA	*24.5*		"	*50.0*		*49.0*	*25-150*				
Surrogate: M3HFPO-DA	*255*		"	*200*		*127*	*25-150*				
Surrogate: d9-N-EtFOSE	*204*		"	*500*		*40.9*	*25-150*				
Surrogate: d7-N-MeFOSE	*304*		"	*500*		*60.8*	*25-150*				

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
LCS (BK31413-BS2)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
Perfluorobutanesulfonic acid (PFBS)	15.1	3.54	ng/L	14.2		107	50-150				
Perfluorohexanoic acid (PFHxA)	16.2	4.00	"	16.0		102	50-150				
Perfluoroheptanoic acid (PFHpA)	10.7	4.00	"	16.0		67.0	50-150				
Perfluorohexanesulfonic acid (PFHxS)	15.8	3.66	"	14.6		108	50-150				
Perfluorooctanoic acid (PFOA)	16.5	4.00	"	16.0		103	50-150				
Perfluorooctanesulfonic acid (PFOS)	14.6	3.72	"	14.9		98.1	50-150				
Perfluorononanoic acid (PFNA)	17.9	4.00	"	16.0		112	50-150				
Perfluorodecanoic acid (PFDA)	16.5	4.00	"	16.0		103	50-150				
Perfluoroundecanoic acid (PFUnA)	16.4	4.00	"	16.0		102	50-150				
Perfluorododecanoic acid (PFDoA)	19.8	4.00	"	16.0		124	50-150				
Perfluorotridecanoic acid (PFTrDA)	26.6	4.00	"	16.0		166	50-150	High Bias			
Perfluorotetradecanoic acid (PFTA)	19.5	4.00	"	16.0		122	50-150				
N-MeFOSAA	17.9	4.00	"	16.0		112	50-150				
N-EtFOSAA	15.6	4.00	"	16.0		97.7	50-150				
Perfluoropentanoic acid (PFPeA)	32.8	8.00	"	32.0		102	50-150				
Perfluoro-1-octanesulfonamide (FOSA)	20.9	4.00	"	16.0		131	50-150				
Perfluoro-1-heptanesulfonic acid (PFHpS)	14.9	3.82	"	15.3		97.6	50-150				
Perfluoro-1-decanesulfonic acid (PFDS)	16.1	3.86	"	15.4		105	50-150				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	79.1	15.2	"	60.8		130	50-150				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	71.5	15.4	"	61.4		116	50-150				
Perfluoro-n-butanoic acid (PFBA)	53.1	16.0	"	64.0		83.0	50-150				
Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	32.4	7.12	"	28.5		114	50-150				
Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	45.2	8.00	"	32.0		141	50-150				
Perfluoro-4-oxapentanoic acid (PFMPA)	4.45	8.00	"	32.0		13.9	50-150	Low Bias			
Perfluoro-5-oxahexanoic acid (PFMBA)	52.8	8.00	"	32.0		165	50-150	High Bias			
Perfluoro-1-pentanesulfonate (PFPeS)	16.5	3.76	"	15.0		110	50-150				
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	67.1	15.0	"	60.0		112	50-150				
HFPO-DA (Gen-X)	32.9	16.0	"	32.0		103	50-150				
11CL-PF3OUdS	38.4	15.1	"	30.2		127	50-150				
9CL-PF3ONS	38.9	15.0	"	29.9		130	50-150				
ADONA	29.6	15.1	"	30.2		98.0	50-150				
Perfluorododecanesulfonic acid (PFDoS)	11.8	3.88	"	15.5		76.2	50-150				
Perfluoro-1-nonanesulfonic acid (PFNS)	20.4	3.84	"	15.4		133	50-150				
3-Perfluoropropyl propanoic acid (FPrPA)	39.5	10.0	"	64.0		61.8	50-150				
3-Perfluoropentyl propanoic acid (FPePA)	368	50.0	"	320		115	50-150				
3-Perfluoroheptyl propanoic acid (FHpPA)	440	50.0	"	320		138	50-150				
N-MeFOSE	238	40.0	"	160		149	50-150				
N-MeFOSA	18.3	4.00	"	16.0		114	50-150				
N-EtFOSE	200	40.0	"	160		125	50-150				
N-EtFOSA	14.2	4.00	"	16.0		88.6	50-150				
Surrogate: M3PFBS	*49.0*		*"*	*46.6*		*105*	*25-150*				
Surrogate: M5PFHxA	*53.3*		*"*	*50.0*		*107*	*25-150*				
Surrogate: M4PFHpA	*69.4*		*"*	*50.0*		*139*	*25-150*				
Surrogate: M3PFHxS	*51.5*		*"*	*47.4*		*109*	*25-150*				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*51.6*		*"*	*50.0*		*103*	*25-150*				
Surrogate: M6PFDA	*29.3*		*"*	*25.0*		*117*	*25-150*				
Surrogate: M7PFUdA	*31.7*		*"*	*25.0*		*127*	*25-150*				

PFAS Target compounds by LC/MS-MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31413 - EPA 1633 Prep											
LCS (BK31413-BS2)								Prepared: 11/21/2023 Analyzed: 11/22/2023			
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*26.1*		*ng/L*	*25.0*		*104*	*25-150*				
Surrogate: M2PFTeDA	*15.6*		*"*	*25.0*		*62.6*	*10-150*				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.75*		*"*	*200*		*2.87*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*45.0*		*"*	*47.9*		*94.0*	*25-150*				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*46.4*		*"*	*100*		*46.4*	*25-150*				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*38.8*		*"*	*50.0*		*77.6*	*10-150*				
Surrogate: d3-N-MeFOSAA	*61.2*		*"*	*100*		*61.2*	*25-150*				
Surrogate: d5-N-EtFOSAA	*67.7*		*"*	*100*		*67.7*	*25-150*				
Surrogate: M2-6:2 FTS	*44.8*		*"*	*95.1*		*47.1*	*25-200*				
Surrogate: M2-8:2 FTS	*62.3*		*"*	*96.0*		*64.9*	*25-200*				
Surrogate: M9PFNA	*25.5*		*"*	*25.0*		*102*	*25-150*				
Surrogate: M2-4:2 FTS	*58.3*		*"*	*93.8*		*62.2*	*25-150*				
Surrogate: d-N-MeFOSA	*26.1*		*"*	*50.0*		*52.2*	*25-150*				
Surrogate: d-N-EtFOSA	*23.8*		*"*	*50.0*		*47.7*	*25-150*				
Surrogate: M3HFPO-DA	*246*		*"*	*200*		*123*	*25-150*				
Surrogate: d9-N-EtFOSE	*166*		*"*	*500*		*33.3*	*25-150*				
Surrogate: d7-N-MeFOSE	*244*		*"*	*500*		*48.9*	*25-150*				

Semivolatile Organic Compounds by GC/MS TIC - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31385 - EPA 3550C											
Blank (BK31385-BLK1)											Prepared: 11/21/2023 Analyzed: 11/22/2023
Tentatively Identified Compounds	0.00		mg/kg wet								

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31235 - EPA 3550C											
Blank (BK31235-BLK1)											Prepared: 11/20/2023 Analyzed: 11/21/2023
4,4'-DDD	ND	1.64	ug/kg wet								
4,4'-DDE	ND	1.64	"								
4,4'-DDT	ND	1.64	"								
Aldrin	ND	1.64	"								
alpha-BHC	ND	1.64	"								
alpha-Chlordane	ND	1.64	"								
beta-BHC	ND	1.64	"								
Chlordane, total	ND	32.9	"								
delta-BHC	ND	1.64	"								
Dieldrin	ND	1.64	"								
Endosulfan I	ND	1.64	"								
Endosulfan II	ND	1.64	"								
Endosulfan sulfate	ND	1.64	"								
Endrin	ND	1.64	"								
Endrin aldehyde	ND	1.64	"								
Endrin ketone	ND	1.64	"								
gamma-BHC (Lindane)	ND	1.64	"								
gamma-Chlordane	ND	1.64	"								
Heptachlor	ND	1.64	"								
Heptachlor epoxide	ND	1.64	"								
Methoxychlor	ND	8.22	"								
Toxaphene	ND	83.2	"								
Surrogate: Decachlorobiphenyl	*68.8*		*"*	*66.4*		*104*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*56.0*		*"*	*66.4*		*84.3*	*30-150*				
LCS (BK31235-BS1)											Prepared: 11/20/2023 Analyzed: 11/21/2023
4,4'-DDD	31.5	1.64	ug/kg wet	33.2		94.8	40-140				
4,4'-DDE	29.5	1.64	"	33.2		88.9	40-140				
4,4'-DDT	33.8	1.64	"	33.2		102	40-140				
Aldrin	28.1	1.64	"	33.2		84.5	40-140				
alpha-BHC	31.3	1.64	"	33.2		94.2	40-140				
alpha-Chlordane	29.7	1.64	"	33.2		89.3	40-140				
beta-BHC	30.2	1.64	"	33.2		90.8	40-140				
delta-BHC	28.0	1.64	"	33.2		84.2	40-140				
Dieldrin	29.2	1.64	"	33.2		88.0	40-140				
Endosulfan I	31.0	1.64	"	33.2		93.2	40-140				
Endosulfan II	31.2	1.64	"	33.2		93.9	40-140				
Endosulfan sulfate	29.3	1.64	"	33.2		88.2	40-140				
Endrin	31.5	1.64	"	33.2		94.7	40-140				
Endrin aldehyde	27.9	1.64	"	33.2		84.0	40-140				
Endrin ketone	31.6	1.64	"	33.2		95.1	40-140				
gamma-BHC (Lindane)	31.3	1.64	"	33.2		94.1	40-140				
gamma-Chlordane	30.7	1.64	"	33.2		92.4	40-140				
Heptachlor	31.4	1.64	"	33.2		94.6	40-140				
Heptachlor epoxide	30.6	1.64	"	33.2		92.2	40-140				
Methoxychlor	42.0	8.22	"	33.2		126	40-140				
Surrogate: Decachlorobiphenyl	*72.2*		*"*	*66.4*		*109*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*59.1*		*"*	*66.4*		*89.0*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31235 - EPA 3550C											
Matrix Spike (BK31235-MS1)	*Source sample: 23K0891-01 (Matrix Spike)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
4,4'-DDD	28.5	1.80	ug/kg dry	36.3	ND	78.7	30-150				
4,4'-DDE	27.2	1.80	"	36.3	ND	75.1	30-150				
4,4'-DDT	32.7	1.80	"	36.3	ND	90.1	30-150				
Aldrin	27.0	1.80	"	36.3	ND	74.5	30-150				
alpha-BHC	29.6	1.80	"	36.3	ND	81.6	30-150				
alpha-Chlordane	28.0	1.80	"	36.3	ND	77.2	30-150				
beta-BHC	28.6	1.80	"	36.3	ND	78.8	30-150				
delta-BHC	27.3	1.80	"	36.3	ND	75.2	30-150				
Dieldrin	27.3	1.80	"	36.3	ND	75.3	30-150				
Endosulfan I	28.7	1.80	"	36.3	ND	79.3	30-150				
Endosulfan II	28.4	1.80	"	36.3	ND	78.3	30-150				
Endosulfan sulfate	28.0	1.80	"	36.3	ND	77.1	30-150				
Endrin	29.7	1.80	"	36.3	ND	81.8	30-150				
Endrin aldehyde	25.1	1.80	"	36.3	ND	69.2	30-150				
Endrin ketone	30.1	1.80	"	36.3	ND	83.0	30-150				
gamma-BHC (Lindane)	29.6	1.80	"	36.3	ND	81.8	30-150				
gamma-Chlordane	28.1	1.80	"	36.3	ND	77.5	30-150				
Heptachlor	30.0	1.80	"	36.3	ND	82.8	30-150				
Heptachlor epoxide	28.6	1.80	"	36.3	ND	78.7	30-150				
Methoxychlor	34.6	8.98	"	36.3	ND	95.5	30-150				
Surrogate: Decachlorobiphenyl	*67.8*		*"*	*72.5*		*93.5*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*56.1*		*"*	*72.5*		*77.4*	*30-150*				
Matrix Spike Dup (BK31235-MSD1)	*Source sample: 23K0891-01 (Matrix Spike Dup)							Prepared: 11/20/2023 Analyzed: 11/21/2023			
4,4'-DDD	33.7	1.80	ug/kg dry	36.3	ND	93.0	30-150		16.7	30	
4,4'-DDE	31.9	1.80	"	36.3	ND	87.9	30-150		15.7	30	
4,4'-DDT	36.2	1.80	"	36.3	ND	99.9	30-150		10.3	30	
Aldrin	30.4	1.80	"	36.3	ND	83.7	30-150		11.7	30	
alpha-BHC	33.0	1.80	"	36.3	ND	91.0	30-150		10.9	30	
alpha-Chlordane	32.2	1.80	"	36.3	ND	88.8	30-150		13.9	30	
beta-BHC	31.8	1.80	"	36.3	ND	87.8	30-150		10.7	30	
delta-BHC	29.3	1.80	"	36.3	ND	80.9	30-150		7.34	30	
Dieldrin	31.6	1.80	"	36.3	ND	87.2	30-150		14.6	30	
Endosulfan I	33.5	1.80	"	36.3	ND	92.3	30-150		15.2	30	
Endosulfan II	33.8	1.80	"	36.3	ND	93.1	30-150		17.3	30	
Endosulfan sulfate	31.4	1.80	"	36.3	ND	86.7	30-150		11.7	30	
Endrin	33.6	1.80	"	36.3	ND	92.7	30-150		12.6	30	
Endrin aldehyde	31.4	1.80	"	36.3	ND	86.7	30-150		22.4	30	
Endrin ketone	33.9	1.80	"	36.3	ND	93.4	30-150		11.8	30	
gamma-BHC (Lindane)	33.2	1.80	"	36.3	ND	91.5	30-150		11.2	30	
gamma-Chlordane	32.5	1.80	"	36.3	ND	89.7	30-150		14.5	30	
Heptachlor	33.2	1.80	"	36.3	ND	91.6	30-150		10.1	30	
Heptachlor epoxide	33.0	1.80	"	36.3	ND	90.9	30-150		14.4	30	
Methoxychlor	47.0	8.98	"	36.3	ND	130	30-150		30.4	30	Non-dir.
Surrogate: Decachlorobiphenyl	*78.1*		*"*	*72.5*		*108*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*62.5*		*"*	*72.5*		*86.2*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31235 - EPA 3550C											
Blank (BK31235-BLK2)											Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	ND	0.0166	mg/kg wet								
Aroclor 1221	ND	0.0166	"								
Aroclor 1232	ND	0.0166	"								
Aroclor 1242	ND	0.0166	"								
Aroclor 1248	ND	0.0166	"								
Aroclor 1254	ND	0.0166	"								
Aroclor 1260	ND	0.0166	"								
Total PCBs	ND	0.0166	"								
Surrogate: Tetrachloro-m-xylene	*0.0488*		"	*0.0664*		*73.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0508*		"	*0.0664*		*76.5*	*30-140*				
LCS (BK31235-BS2)											Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	0.278	0.0166	mg/kg wet	0.332		83.6	40-130				
Aroclor 1260	0.293	0.0166	"	0.332		88.1	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0535*		"	*0.0664*		*80.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0555*		"	*0.0664*		*83.5*	*30-140*				
Matrix Spike (BK31235-MS2)	*Source sample: 23K0891-01 (Matrix Spike)										Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	0.288	0.0181	mg/kg dry	0.363	ND	79.5	40-140				
Aroclor 1260	0.325	0.0181	"	0.363	ND	89.5	40-140				
Surrogate: Tetrachloro-m-xylene	*0.0548*		"	*0.0725*		*75.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0627*		"	*0.0725*		*86.5*	*30-140*				
Matrix Spike Dup (BK31235-MSD2)	*Source sample: 23K0891-01 (Matrix Spike Dup)										Prepared: 11/20/2023 Analyzed: 11/21/2023
Aroclor 1016	0.278	0.0181	mg/kg dry	0.363	ND	76.7	40-140		3.56	50	
Aroclor 1260	0.315	0.0181	"	0.363	ND	86.8	40-140		3.11	50	
Surrogate: Tetrachloro-m-xylene	*0.0526*		"	*0.0725*		*72.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0616*		"	*0.0725*		*85.0*	*30-140*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31472 - EPA 3050B											
Blank (BK31472-BLK1)									Prepared & Analyzed: 11/22/2023		
Aluminum	ND	4.17	mg/kg wet								
Antimony	ND	2.08	"								
Arsenic	ND	1.25	"								
Barium	ND	2.08	"								
Beryllium	ND	0.042	"								
Cadmium	ND	0.250	"								
Calcium	ND	4.17	"								
Chromium	ND	0.417	"								
Cobalt	ND	0.333	"								
Copper	ND	1.67	"								
Iron	ND	20.8	"								
Lead	0.536	0.417	"								
Magnesium	ND	4.17	"								
Manganese	ND	0.417	"								
Nickel	ND	0.830	"								
Potassium	ND	4.17	"								
Selenium	ND	2.08	"								
Silver	ND	0.420	"								
Sodium	ND	41.7	"								
Thallium	ND	2.08	"								
Vanadium	ND	0.830	"								
Zinc	ND	2.08	"								
Duplicate (BK31472-DUP1)	*Source sample: 23K1265-02 (Duplicate)								Prepared & Analyzed: 11/22/2023		
Aluminum	8150	4.60	mg/kg dry		7320				10.8	35	
Antimony	ND	2.30	"		ND					35	
Arsenic	3.78	1.38	"		5.15				30.5	35	
Barium	68.7	2.29	"		57.8				17.3	35	
Beryllium	ND	0.046	"		ND					35	
Cadmium	ND	0.276	"		ND					35	
Calcium	1730	4.60	"		1940				11.0	35	
Chromium	15.6	0.460	"		15.3				1.47	35	
Cobalt	7.49	0.367	"		7.62				1.80	35	
Copper	18.1	1.84	"		19.1				5.25	35	
Iron	20200	23.0	"		24800				20.4	35	
Lead	25.9	0.460	"		25.0				3.77	35	
Magnesium	1920	4.60	"		2620				30.9	35	
Manganese	552	0.460	"		530				4.16	35	
Nickel	12.2	0.916	"		11.0				10.3	35	
Potassium	1100	4.60	"		1290				16.1	35	
Selenium	4.82	2.30	"		6.07				23.0	35	
Silver	ND	0.463	"		ND					35	
Sodium	ND	46.0	"		ND					35	
Thallium	ND	2.30	"		ND					35	
Vanadium	30.6	0.916	"		34.3				11.6	35	
Zinc	37.7	2.29	"		37.2				1.35	35	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31472 - EPA 3050B											
Matrix Spike (BK31472-MS1)	*Source sample: 23K1265-02 (Matrix Spike)							Prepared & Analyzed: 11/22/2023			
Aluminum	7910	4.60	mg/kg dry	184	7320	324	75-125	High Bias			
Antimony	7.36	2.30	"	23.0	ND	32.0	75-125	Low Bias			
Arsenic	178	1.38	"	184	5.15	94.1	75-125				
Barium	227	2.29	"	184	57.8	92.2	75-125				
Beryllium	3.89	0.046	"	4.60	ND	84.5	75-125				
Cadmium	4.23	0.276	"	4.60	ND	91.9	75-125				
Calcium	1540	4.60	"	91.9	1940	NR	75-125	Low Bias			
Chromium	33.2	0.460	"	18.4	15.3	97.2	75-125				
Cobalt	53.6	0.367	"	46.0	7.62	100	75-125				
Copper	43.6	1.84	"	23.0	19.1	106	75-125				
Iron	17800	23.0	"	91.9	24800	NR	75-125	Low Bias			
Lead	59.5	0.460	"	46.0	25.0	75.1	75-125				
Magnesium	2070	4.60	"	91.9	2620	NR	75-125	Low Bias			
Manganese	412	0.460	"	46.0	530	NR	75-125	Low Bias			
Nickel	55.6	0.916	"	46.0	11.0	97.1	75-125				
Potassium	1280	4.60	"	91.9	1290	NR	75-125	Low Bias			
Selenium	174	2.30	"	184	6.07	91.4	75-125				
Silver	ND	0.463	"	4.60	ND		75-125	Low Bias			
Sodium	48.2	46.0	"	91.9	ND	52.5	75-125	Low Bias			
Thallium	154	2.30	"	184	ND	83.9	75-125				
Vanadium	72.3	0.916	"	46.0	34.3	82.6	75-125				
Zinc	82.2	2.29	"	46.0	37.2	98.0	75-125				
Post Spike (BK31472-PS1)	*Source sample: 23K1265-02 (Post Spike)							Prepared & Analyzed: 11/22/2023			
Aluminum	80.3		ug/mL	2.00	79.6	34.9	75-125	Low Bias			
Antimony	0.232		"	0.250	0.007	89.9	75-125				
Arsenic	1.90		"	2.00	0.056	92.3	75-125				
Barium	2.52		"	2.00	0.629	94.7	75-125				
Beryllium	0.041		"	0.0500	-0.005	82.2	75-125				
Cadmium	0.044		"	0.0500	-0.002	89.0	75-125				
Calcium	21.7		"	1.00	21.1	63.3	75-125	Low Bias			
Chromium	0.352		"	0.200	0.167	92.5	75-125				
Cobalt	0.554		"	0.500	0.083	94.2	75-125				
Copper	0.461		"	0.250	0.208	101	75-125				
Iron	264		"	1.00	270	NR	75-125	Low Bias			
Lead	0.701		"	0.500	0.272	85.8	75-125				
Magnesium	28.9		"	1.00	28.5	39.4	75-125	Low Bias			
Manganese	6.15		"	0.500	5.76	76.3	75-125				
Nickel	0.590		"	0.500	0.119	94.2	75-125				
Potassium	14.5		"	1.00	14.1	39.5	75-125	Low Bias			
Selenium	1.85		"	2.00	0.066	89.0	75-125				
Silver	-0.011		"	0.0500	-0.063		75-125	Low Bias			
Sodium	0.363		"	1.00	-1.23	36.3	75-125	Low Bias			
Thallium	1.62		"	2.00	-0.023	80.8	75-125				
Vanadium	0.830		"	0.500	0.373	91.4	75-125				
Zinc	0.870		"	0.500	0.405	93.1	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31472 - EPA 3050B											
Reference (BK31472-SRM1)								Prepared & Analyzed: 11/22/2023			
Aluminum	8240	4.17	mg/kg wet	9490		86.9	45.4-128.6				
Antimony	69.0	2.08	"	248		27.8	3-103.2				
Arsenic	137	1.25	"	163		84.1	68.7-100.6				
Barium	324	2.08	"	319		102	82.5-115.7				
Beryllium	105	0.042	"	119		88.6	77.7-109.2				
Cadmium	118	0.250	"	130		90.8	75.2-106.2				
Calcium	4860	4.17	"	5000		97.2	80.6-114.4				
Chromium	149	0.417	"	153		97.6	77.8-111.8				
Cobalt	150	0.333	"	153		98.0	79.1-109.8				
Copper	254	1.67	"	245		104	80.4-111				
Iron	7720	20.8	"	7540		102	69.8-144.6				
Lead	201	0.417	"	220		91.3	80-113.6				
Magnesium	2070	4.17	"	1980		105	85.9-129.3				
Manganese	429	0.417	"	431		99.6	79.6-114.2				
Nickel	170	0.830	"	175		97.2	76.6-108.6				
Potassium	1590	4.17	"	1570		101	80.9-131.2				
Selenium	160	2.08	"	156		102	80.8-118.6				
Silver	67.6	0.420	"	82.9		81.6	76.7-114.7				
Sodium	471	41.7	"	453		104	72.2-119.7				
Thallium	82.8	2.08	"	99.4		83.3	75.8-110.7				
Vanadium	157	0.830	"	170		92.4	75.3-114.1				
Zinc	373	2.08	"	201		185	79.6-115.92	High Bias			

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31234 - EPA 7473 soil											
Blank (BK31234-BLK1)								Prepared & Analyzed: 11/19/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31234-DUP1)	*Source sample: 23K0956-01 (Duplicate)							Prepared & Analyzed: 11/19/2023			
Mercury	ND	0.0319	mg/kg dry		0.0486					35	
Matrix Spike (BK31234-MS1)	*Source sample: 23K0956-01 (Matrix Spike)							Prepared & Analyzed: 11/19/2023			
Mercury	0.484		mg/kg	0.500	0.0457	87.6	75-125				
Reference (BK31234-SRM1)								Prepared & Analyzed: 11/19/2023			
Mercury	19.433		mg/kg	18.2		107	59.9-140.1				
Batch BK31420 - EPA 7473 soil											
Blank (BK31420-BLK1)								Prepared & Analyzed: 11/21/2023			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BK31420-DUP1)	*Source sample: 23K0922-01 (Duplicate)							Prepared & Analyzed: 11/21/2023			
Mercury	0.435	0.0346	mg/kg dry		0.539				21.3	35	
Matrix Spike (BK31420-MS1)	*Source sample: 23K0922-01 (Matrix Spike)							Prepared & Analyzed: 11/21/2023			
Mercury	1.03		mg/kg	0.500	0.467	113	75-125				
Reference (BK31420-SRM1)								Prepared & Analyzed: 11/21/2023			
Mercury	17.843		mg/kg	18.2		98.0	59.9-140.1				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31294 - Analysis Preparation Soil											
Blank (BK31294-BLK1)								Prepared & Analyzed: 11/20/2023			
Cyanide, total	ND	0.500	mg/kg wet								
Duplicate (BK31294-DUP1)	*Source sample: 23K1070-01 (Duplicate)							Prepared & Analyzed: 11/20/2023			
Cyanide, total	ND	0.543	mg/kg dry		ND					15	
Matrix Spike (BK31294-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared & Analyzed: 11/20/2023			
Cyanide, total	9.77	0.543	mg/kg dry	10.9	ND	90.0	79.6-107				
Matrix Spike Dup (BK31294-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/20/2023			
Cyanide, total	9.99	0.543	mg/kg dry	10.9	ND	92.0	79.6-107		2.20	200	
Reference (BK31294-SRM1)								Prepared & Analyzed: 11/20/2023			
Cyanide, total	114		ug/mL	131		86.7	44.4-156.5				
Batch BK31311 - EPA SW846-3060											
Blank (BK31311-BLK1)								Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BK31311-DUP1)	*Source sample: 23K1070-01 (Duplicate)							Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	10.9	0.543	mg/kg dry		9.82				10.1	35	
Matrix Spike (BK31311-MS1)	*Source sample: 23K1070-01 (Matrix Spike)							Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	27.6	0.543	mg/kg dry	21.7	9.82	81.8	75-125				
Matrix Spike Dup (BK31311-MSD1)	*Source sample: 23K1070-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	29.5	0.543	mg/kg dry	21.7	9.82	90.8	75-125		6.84	200	

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31311 - EPA SW846-3060											
Reference (BK31311-SRM1)								Prepared & Analyzed: 11/20/2023			
Chromium, Hexavalent	199		mg/L	227		87.7	42.3-157.7				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31369 - % Solids Prep											
Duplicate (BK31369-DUP1)	*Source sample: 23K0980-04 (23SP5 (25-27.5 ft))								Prepared & Analyzed: 11/21/2023		
% Solids	81.4	0.100	%		81.8				0.567	20	
Batch BK31378 - % Solids Prep											
Duplicate (BK31378-DUP1)	*Source sample: 23K1073-01 (Duplicate)								Prepared & Analyzed: 11/21/2023		
% Solids	96.2	0.100	%		96.1				0.103	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K0980-01	23SP5 (0-2.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-02	23SP5 (12.5-15 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-03	23SP5 (15-17.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-04	23SP5 (25-27.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-05	23SP6 (0-2.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-06	23SP6 (12.5-15 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-07	23SP6 (15-17.5 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-08	23SP6 (22.5-25 ft)	40mL Vial with Stir Bar-Cool 4° C
23K0980-09	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K0980-10	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-09	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
S-08	The recovery of this surrogate was outside of QC limits.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
PCB-I	PCB calculations are based uoon the average response of 5 peaks for each Aroclor. For this sample an internference was present and the analyst was unable to use all 5 peaks.
N	The Tentatively Identified Compound reported indicates the presence of an possible analyte or class of analyte that has been 'tentatively identified' and the associated numerical value represents its estimated concentration.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-HI	The internal std associated with this target compound did not meet acceptance criteria (area >200% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K0980

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page _____ of _____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th-st Bronx, NY

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
RUSH - Five Day	
Standard (6-9 Day)	✓

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Firat Ateman

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York ✓
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
~~NY~~ ASP B Package | Other: _____

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23SP5 (0-2.5 ft.)	S	11/13/23 9:15	TCL +10 VOCs 9 TICs, TCL+20 SVOCs +	(2) 8oz. Jar 4 vials	
23SP5 (12.5-15ft.)		9:30	TICs, Pesticides/PCBs EPA 8081/8082,	1 PFAS plastic	
23SP5 (15-17.5ft.)		9:50	21 PFAS Compounds EPA 1633, 1,4-dioxane		
23SP5 (25-27.5ft)		10:00	EPA 8270 SIM, TAL Metals + Cyanide		
23SP6 (0-2.5 ft.)		11:20	& Hexavalent Chromium		
23SP6 (12.5-15ft)		11:45			
23SP6 (15-17.5ft.)		11:50			
23SP6 ~~(25-27.5ft.)~~ (22.5-25 ft)	✓	12:00			
Trip Blank, Field blank			VOCs	2 vials + 3 vials	
PFAS Field Blank			PFAS	1 PFAS Plastic	

Comments:

Preservation: (check all that apply)

HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: _____

Special Instruction

Field Filtered
Lab to Filter

Samples iced/chilled at time of lab pickup? circle Yes or No

1. Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	11/14/23 12:15 pm	KBahyork	11/14/23 12:15 pm	KBahyork	11/14/23 1700
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					11/14/23 1700 / 1.4 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 11/30/2023
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K1273

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/30/2023
Client Project ID: 220293 100 E. 149th St. Bronx, NY
York Project (SDG) No.: 23K1273

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 17, 2023 and listed below. The project was identified as your project: **220293 100 E. 149th St. Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K1273-01	23MW1	Ground Water	11/17/2023	11/17/2023
23K1273-02	23MW2	Ground Water	11/17/2023	11/17/2023
23K1273-03	23MW3	Ground Water	11/17/2023	11/17/2023
23K1273-04	23MW8	Ground Water	11/17/2023	11/17/2023
23K1273-05	23MW9	Ground Water	11/17/2023	11/17/2023
23K1273-06	23MW10	Ground Water	11/17/2023	11/17/2023
23K1273-07	Trip Blank	Water	11/17/2023	11/17/2023
23K1273-08	Field Blank	Water	11/17/2023	11/17/2023

General Notes for York Project (SDG) No.: 23K1273

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Date: 11/30/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/22/2023 18:27	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/22/2023 18:27	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/22/2023 18:27	SMA
95-63-6	**1,2,4-Trimethylbenzene**	**110**		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/27/2023 14:11	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
108-67-8	**1,3,5-Trimethylbenzene**	**34**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/22/2023 18:27	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
123-91-1	1,4-Dioxane	ND	ICVE	ug/L	40	40	1	EPA 8260D Certifications:	11/22/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/22/2023 18:27	SMA
78-93-3	2-Butanone	ND	QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
591-78-6	2-Hexanone	ND	QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
67-64-1	Acetone	ND	ICVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
71-43-2	**Benzene**	**49**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/22/2023 18:27	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/22/2023 18:27	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/22/2023 18:27	SMA

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**65**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**75**		ug/L	1.0	2.5	5	EPA 8260D	11/27/2023 09:00	11/27/2023 14:11	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**8.4**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**80**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**3.1**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**21**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**19**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**150**		ug/L	0.50	1.0	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**2.1**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**2.4**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	**Styrene**	**0.59**		ug/L	0.20	0.50	1	EPA 8260D	11/22/2023 09:00	11/22/2023 18:27	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-88-3	**Toluene**	**26**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
1330-20-7	**Xylenes, Total**	**170**		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/22/2023 09:00	11/22/2023 18:27 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*79.3 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**11**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
NA	**Benzene ethyl dimethyl isomer**	**18**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
NA	**Benzene ethyl methyl isomer**	**29**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
001758-88-9	**Benzene, 2-ethyl-1,4-dimeth...**	**7.6**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclopentane methyl isomer**	**33**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
NA	**Cyclopentane Pentamethylene...**	**10**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
NA	**Indane methyl isomer**	**17**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
NA	**Indene dihydro methyl isomer**	**16**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
NA	**Pentane methyl isomer (01)**	**22**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
NA	**Pentane methyl isomer (02)**	**13**	J	ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/22/2023 09:00	11/22/2023 18:27	SMA

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	11/29/2023 10:53	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	11/29/2023 10:53	KH
120-82-1	1,2,4-Trichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	11/29/2023 10:53	KH
95-50-1	1,2-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/28/2023 08:04	11/29/2023 10:53	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	11/29/2023 10:53	KH
541-73-1	1,3-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/28/2023 08:04	11/29/2023 10:53	KH
106-46-7	1,4-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/28/2023 08:04	11/29/2023 10:53	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	11/29/2023 10:53	KH
95-95-4	2,4,5-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	11/29/2023 10:53	KH
88-06-2	2,4,6-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	11/29/2023 10:53	KH

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
105-67-9	2,4-Dimethylphenol	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
51-28-5	**2,4-Dinitrophenol**	**3.48**	J, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/29/2023 10:53	KH
121-14-2	2,4-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
606-20-2	2,6-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
91-58-7	2-Chloronaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
95-57-8	2-Chlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
91-57-6	2-Methylnaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
95-48-7	2-Methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
88-74-4	2-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
88-75-5	2-Nitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
65794-96-9	3- & 4-Methylphenols	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
91-94-1	3,3-Dichlorobenzidine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
99-09-2	3-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
101-55-3	4-Bromophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
59-50-7	4-Chloro-3-methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
106-47-8	4-Chloroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
100-02-7	4-Nitrophenol	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
98-86-2	Acetophenone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 10:53	KH
62-53-3	Aniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 10:53	KH
100-52-7	Benzaldehyde	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 10:53	KH
92-87-5	Benzidine	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
65-85-0	Benzoic acid	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 10:53	KH
100-51-6	Benzyl alcohol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 10:53	KH
85-68-7	Benzyl butyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
111-91-1	Bis(2-chloroethoxy)methane	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
111-44-4	Bis(2-chloroethyl)ether	ND	HT-PR	ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
105-60-2	Caprolactam	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 10:53	KH
86-74-8	Carbazole	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
132-64-9	Dibenzofuran	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
84-66-2	Diethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
131-11-3	Dimethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
84-74-2	Di-n-butyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH
117-84-0	Di-n-octyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 10:53	KH

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND	HT-PR	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-95-2	Phenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
6025-45-2	* Resorcinol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*30.4 %*	HT-PR	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*19.1 %*	HT-PR	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.4 %*	HT-PR	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.0 %*	HT-PR	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.6 %*	HT-PR	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
120-12-7	Anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
56-55-3	Benzo(a)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-32-8	Benzo(a)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
205-99-2	Benzo(b)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
191-24-2	Benzo(g,h,i)perylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
207-08-9	Benzo(k)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 00:41	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
218-01-9	Chrysene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
53-70-3	Dibenzo(a,h)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
206-44-0	Fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
86-73-7	Fluorene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
118-74-1	Hexachlorobenzene	ND	HT-PR	ug/L	0.0200	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
87-68-3	Hexachlorobutadiene	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
67-72-1	Hexachloroethane	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
193-39-5	Indeno(1,2,3-cd)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
91-20-3	**Naphthalene**	**0.120**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
98-95-3	Nitrobenzene	ND	HT-PR	ug/L	0.250	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
62-75-9	N-Nitrosodimethylamine	ND	HT-PR, QL-02	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
85-01-8	Phenanthrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
129-00-0	**Pyrene**	**0.0500**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 00:41	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	11/20/2023 13:19	11/22/2023 05:17	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*75.2 %*	*36.6-118*

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**1H-Inden-1-one Isomer RT 6.7**	**24.4**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH
NA	**Unknown RT 6.5**	**22.6**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 10:53	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 16:40	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:40	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*32.9 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*68.8 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:41	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/22/2023 07:22	11/22/2023 20:41	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*49.5 %*	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.548**		mg/L	0.0556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7440-39-3	**Barium**	**0.219**		mg/L	0.0278	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7440-70-2	**Calcium**	**222**	B	mg/L	0.0556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/30/2023 15:22	CEG
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/30/2023 15:22	CEG
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/30/2023 15:22	CEG
7439-89-6	**Iron**	**7.36**		mg/L	0.278	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7439-92-1	**Lead**	**0.112**		mg/L	0.00556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7439-95-4	**Magnesium**	**37.6**		mg/L	0.0556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7439-96-5	**Manganese**	**0.613**		mg/L	0.00556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/30/2023 15:22	CEG
7440-09-7	**Potassium**	**25.7**		mg/L	0.0556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/30/2023 15:22	CEG
7440-23-5	**Sodium**	**116**	B	mg/L	0.556	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/30/2023 15:22	CEG
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications:	11/28/2023 08:23 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/30/2023 15:22	CEG

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0695**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.0946**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**212**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**0.00570**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**36.8**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.537**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**24.1**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**152**	M-BS	mg/L	0.556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:04	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**14.1**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**7.48**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**8.09**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**3.58**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0010**		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW1 **York Sample ID:** 23K1273-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:50 am	11/17/2023

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/17/2023 21:46	11/17/2023 22:26	SMK
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	11/29/2023 06:34	11/30/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0320**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	11/22/2023 12:27	11/22/2023 19:35	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
95-63-6	**1,2,4-Trimethylbenzene**	**880**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-67-8	**1,3,5-Trimethylbenzene**	**260**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
123-91-1	1,4-Dioxane	ND		ug/L	2000	2000	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
78-93-3	2-Butanone	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
67-64-1	Acetone	ND		ug/L	50	100	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
107-02-8	Acrolein	ND	CCVE	ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
107-13-1	Acrylonitrile	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
71-43-2	**Benzene**	**760**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/27/2023 12:32	SMA
74-97-5	Bromochloromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 12:32	SMA
75-27-4	Bromodichloromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
75-25-2	Bromoform	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
75-15-0	Carbon disulfide	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
108-90-7	Chlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
75-00-3	Chloroethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
67-66-3	Chloroform	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
74-87-3	Chloromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:32	SMA
110-82-7	**Cyclohexane**	**590**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0	11/27/2023 12:32	SMA

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**1200**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**86**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**370**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0
75-09-2	Methylene chloride	ND		ug/L	50	100	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**46**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
103-65-1	**n-Propylbenzene**	**230**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**40**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**340**		ug/L	25	50	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	**sec-Butylbenzene**	**16**	J	ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
100-42-5	Styrene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	25	50	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:32	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**150**		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**380**		ug/L	30	75	50	EPA 8260D	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*100 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*98.1 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.7 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclopentane methyl isomer**	**520**	J	ug/L			50	EPA 8260C	11/27/2023 09:00	11/27/2023 12:32	SMA
								Certifications:			

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 11:27	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
541-73-1	1,3-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 11:27	KH
106-46-7	1,4-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 11:27	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
95-95-4	2,4,5-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
88-06-2	2,4,6-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
120-83-2	2,4-Dichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
105-67-9	2,4-Dimethylphenol	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
51-28-5	2,4-Dinitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
121-14-2	2,4-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
606-20-2	2,6-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
91-58-7	2-Chloronaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
95-57-8	2-Chlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
91-57-6	**2-Methylnaphthalene**	**16.8**	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/29/2023 11:27	KH
95-48-7	2-Methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
88-74-4	2-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
88-75-5	2-Nitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
65794-96-9	3- & 4-Methylphenols	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3-Dichlorobenzidine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
99-09-2	3-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
101-55-3	4-Bromophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
59-50-7	4-Chloro-3-methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
106-47-8	4-Chloroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
100-01-6	4-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
100-02-7	4-Nitrophenol	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
98-86-2	Acetophenone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
62-53-3	Aniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
100-52-7	Benzaldehyde	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
92-87-5	Benzidine	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
65-85-0	Benzoic acid	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
100-51-6	Benzyl alcohol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
85-68-7	Benzyl butyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
111-91-1	Bis(2-chloroethoxy)methane	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
111-44-4	Bis(2-chloroethyl)ether	ND	HT-PR	ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-60-2	Caprolactam	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:27	KH
86-74-8	Carbazole	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
132-64-9	Dibenzofuran	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
84-66-2	Diethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
131-11-3	Dimethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
84-74-2	Di-n-butyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
117-84-0	Di-n-octyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
77-47-4	Hexachlorocyclopentadiene	ND	HT-PR	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
78-59-1	Isophorone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
621-64-7	N-nitroso-di-n-propylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
86-30-6	N-Nitrosodiphenylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
108-95-2	Phenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:27	KH
6025-45-2	* Resorcinol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*30.7 %*	HT-PR	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*17.7 %*	HT-PR	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*78.0 %*	HT-PR	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*62.7 %*	HT-PR	*39.9-105*
118-79-6	*Surrogate: SURR: 2,4,6-Tribromophenol*	*91.8 %*		*39.3-151*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*72.6 %*	HT-PR	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.210**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
208-96-8	Acenaphthylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	**Anthracene**	**0.100**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
56-55-3	Benzo(a)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.110**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	**Fluorene**	**0.140**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
118-74-1	Hexachlorobenzene	ND	HT-PR	ug/L	0.0200	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**49.6**	HT-PR	ug/L	0.500	10	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 14:48	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND	HT-PR	ug/L	0.250	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:12	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND	HT-PR, QL-02	ug/L	0.500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	11/28/2023 08:04	11/29/2023 01:12	KH
85-01-8	**Phenanthrene**	**0.280**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/28/2023 08:04	11/29/2023 01:12	KH
129-00-0	**Pyrene**	**0.0800**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/28/2023 08:04	11/29/2023 01:12	KH

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP-CT005,NELAC-NY10854	11/20/2023 13:19	11/22/2023 05:35	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.1 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.6**	**26.4**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Benzene Isomer RT 5.1**	**83.6**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Benzene Isomer RT 5.5**	**255**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Benzene Isomer RT 5.9**	**11.1**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Benzene Isomer RT 6.0**	**16.2**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Benzene Isomer RT 6.1**	**27.7**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Benzene Isomer RT 7.4**	**9.52**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Benzoic Acid Isomer RT 8.4**	**10.4**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Diethyl Benzene Isomer RT 5.5**	**55.8**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH
NA	**Ethylbenzene RT 4.4**	**366**	N, J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:27	KH

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**methylethyl benzene Isomer ...**	**49.5**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			
NA	**Propyl Benzene Isomer RT 5.0**	**108**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			
NA	**Toluene RT 3.6**	**56.1**	N, J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (01)**	**131**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (02)**	**375**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			
NA	**Unknown RT 7.1**	**12.4**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			
NA	**Unknown RT 7.9**	**16.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			
NA	**Unknown RT 8.1**	**12.0**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 11:27	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 16:58	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*37.6 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.5 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 20:55	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*57.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*44.0 %*	*30-120*

Aluminum by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.581**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.581**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.170**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**155**	B	mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**0.00606**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**4.63**		mg/L	0.278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**0.0293**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**19.3**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**1.27**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**20.0**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**37.0**	B	mg/L	0.556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0635**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.0891**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**149**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**0.00780**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.00588**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**18.5**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**1.21**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**18.6**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**47.5**	M-BS	mg/L	0.556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:07	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**5.40**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**4.21**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:42	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:07	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**4.89**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:07	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:07	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:07	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**2.71**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:07	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:07	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0015**		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/17/2023 21:46	11/17/2023 22:26	SMK
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	11/29/2023 06:34	11/30/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23MW2 **York Sample ID:** 23K1273-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 1:55 pm	11/17/2023

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**1.65**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	11/24/2023 09:24	11/24/2023 13:03	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**83**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 18:15	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**27**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	ug/L	40	40	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**5.5**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**47**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	**Ethyl Benzene**	**42**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	**Isopropylbenzene**	**6.0**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	**Methylcyclohexane**	**67**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	**n-Butylbenzene**	**3.7**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
103-65-1	**n-Propylbenzene**	**16**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**4.8**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**49**		ug/L	0.50	1.0	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**1.8**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**1.8**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**4.9**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**54**		ug/L	0.60	1.5	1	EPA 8260D	11/28/2023 09:00	11/28/2023 12:30	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*86.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.2 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.9 %*	*79-122*

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyl dimethyl isomer**	**16**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA
NA	**Benzene ethyl methyl isomer**	**19**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA
NA	**Cyclopentane methyl isomer**	**23**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA
NA	**Indane methyl isomer**	**15**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA
NA	**Indene dihydro methyl isomer**	**15**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA
NA	**Pentane methyl isomer**	**15**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 12:30	SMA

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:59	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:59	KH
120-82-1	1,2,4-Trichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:59	KH
95-50-1	1,2-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 11:59	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:59	KH
541-73-1	1,3-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 11:59	KH
106-46-7	1,4-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 11:59	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 11:59	KH
95-95-4	2,4,5-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:59	KH
88-06-2	2,4,6-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:59	KH
120-83-2	2,4-Dichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 11:59	KH

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-67-9	2,4-Dimethylphenol	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
51-28-5	2,4-Dinitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
121-14-2	2,4-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
606-20-2	2,6-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-58-7	2-Chloronaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-57-8	2-Chlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-57-6	2-Methylnaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
95-48-7	2-Methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-74-4	2-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
88-75-5	2-Nitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
65794-96-9	3- & 4-Methylphenols	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
91-94-1	3,3-Dichlorobenzidine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
99-09-2	3-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
101-55-3	4-Bromophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
59-50-7	4-Chloro-3-methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
106-47-8	4-Chloroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
100-01-6	4-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-91-1	Bis(2-chloroethoxy)methane	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND	HT-PR	ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	HT-PR	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
621-64-7	N-nitroso-di-n-propylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
86-30-6	N-Nitrosodiphenylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-95-2	Phenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
6025-45-2	* Resorcinol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*28.4 %*	HT-PR	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*17.4 %*	HT-PR	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.2 %*	HT-PR	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*66.2 %*	HT-PR	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*74.4 %*	HT-PR	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
208-96-8	Acenaphthylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
120-12-7	Anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
56-55-3	Benzo(a)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
50-32-8	Benzo(a)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
205-99-2	Benzo(b)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
191-24-2	Benzo(g,h,i)perylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
207-08-9	Benzo(k)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 01:43 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	KH

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.0600**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	Fluorene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND	HT-PR	ug/L	0.0200	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.200**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND	HT-PR	ug/L	0.250	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND	HT-PR, QL-02	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**0.100**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
129-00-0	Pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 01:43	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	11/20/2023 13:19	11/22/2023 05:52	KH
							Certifications:	NJDEP-CT005,NELAC-NY10854		

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*96.3 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 5.5**	**20.2**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Benzene Isomer RT 5.7**	**10.5**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Benzene Isomer RT 6.6**	**10.9**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**ethyl dimethyl Benzene Isom...**	**24.1**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Ethyl Methyl Benzene Isomer...**	**14.4**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Methyl Propyl Benzene Isome...**	**13.2**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Tetramethyl Benzene Isomer ...**	**16.2**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**trimethyl Benzene Isomer RT...**	**37.0**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Unknown RT 6.0**	**16.0**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Unknown RT 6.1**	**19.3**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Unknown RT 6.5**	**13.6**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH
NA	**Unknown RT 6.9**	**13.2**	J	ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 11:59	KH

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 17:16	BCJ
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 17:16	BCJ
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 17:16	BCJ
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 17:16	BCJ
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 17:16	BCJ
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 17:16	BCJ

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B Certifications:	11/22/2023 07:22	11/22/2023 17:16	BCJ CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*31.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.0 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:09	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*42.0 %*	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.584**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.198**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**200**	B	mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**5.01**		mg/L	0.278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**0.0777**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**34.7**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.648**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**25.4**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**94.4**	B	mg/L	0.556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:27	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0608**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.0766**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**177**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**0.00602**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**30.9**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.536**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**22.5**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**110**	M-BS	mg/L	0.556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:10	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**22.4**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**4.98**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:53	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:10	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**18.8**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:10	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:10	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW3 **York Sample ID:** 23K1273-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 2:30 pm	11/17/2023

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:10	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.69**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:10	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:10	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0006**		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/17/2023 21:46	11/17/2023 22:26	SMK
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	11/29/2023 06:34	11/30/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**1.40**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	11/24/2023 09:24	11/24/2023 13:03	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/28/2023 12:57	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/28/2023 12:57	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/28/2023 12:57	SMA
95-63-6	**1,2,4-Trimethylbenzene**	**3.5**	J	ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/28/2023 12:57	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/28/2023 12:57	SMA

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	ug/L	400	400	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**15**	J, ICVE	ug/L	10	20	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
107-02-8	Acrolein	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**16**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**62**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	10	20	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	**n-Propylbenzene**	**4.3**	J	ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	**o-Xylene**	**2.2**	J	ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		
99-87-6	p-Isopropyltoluene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 12:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	5.0	10	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	2.0	5.0	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	6.0	15	10	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*109 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*99.4 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			10	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 12:57	SMA

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-82-1	1,2,4-Trichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,PADEP-68-04440
106-46-7	1,4-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,PADEP-68-04440
58-90-2	2,3,4,6-Tetrachlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-95-4	2,4,5-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-06-2	2,4,6-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
120-83-2	2,4-Dichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-74-4	2-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
99-09-2	3-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	HT-PR, CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65-85-0	Benzoic acid	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-51-6	Benzyl alcohol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
85-68-7	Benzyl butyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
111-44-4	Bis(2-chloroethyl)ether	ND	HT-PR	ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	HT-PR	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-95-2	Phenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
6025-45-2	* Resorcinol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*33.7 %*	HT-PR	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*20.2 %*	HT-PR	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*86.2 %*	HT-PR	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*73.2 %*	HT-PR	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*79.5 %*	HT-PR	*30.7-106*

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
56-55-3	Benzo(a)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	**Fluorene**	**0.310**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
118-74-1	Hexachlorobenzene	ND	HT-PR	ug/L	0.0200	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.200**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND	HT-PR	ug/L	0.250	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 02:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND	QL-02, HT-PR	ug/L	0.500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	11/28/2023 08:04	11/29/2023 02:13	KH
85-01-8	Phenanthrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	11/29/2023 02:13	KH
129-00-0	**Pyrene**	**0.110**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	11/28/2023 08:04	11/29/2023 02:13	KH

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP-CT005,NELAC-NY10854	11/20/2023 13:19	11/22/2023 06:10	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*89.3 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/L			1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 12:34	KH

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 07:22	11/22/2023 17:34	BCJ
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 07:22	11/22/2023 17:34	BCJ
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 07:22	11/22/2023 17:34	BCJ
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 07:22	11/22/2023 17:34	BCJ
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/22/2023 07:22	11/22/2023 17:34	BCJ

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/22/2023 07:22	11/22/2023 17:34	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.7 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*61.0 %*	*30-150*

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/22/2023 07:22	11/22/2023 21:22	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*55.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*73.0 %*	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.145**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.150**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**132**	B	mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**8.02**		mg/L	0.278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0164**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**15.4**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.662**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**17.2**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**29.1**	B	mg/L	0.556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:29	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.0771**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**123**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**0.00584**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**14.9**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**0.600**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**15.8**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**36.7**		mg/L	0.556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:19	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.20**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 15:56	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**1.52**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/17/2023 21:46	11/17/2023 22:26	SMK
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	11/29/2023 06:34	11/30/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW8 **York Sample ID:** 23K1273-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 8:20 am	11/17/2023

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**2.20**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	11/24/2023 09:24	11/24/2023 13:03	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**14**		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
108-67-8	**1,3,5-Trimethylbenzene**	**14**		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/27/2023 13:57	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
123-91-1	1,4-Dioxane	ND		ug/L	1000	1000	25	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 13:57	SMA
78-93-3	2-Butanone	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
591-78-6	2-Hexanone	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
67-64-1	Acetone	ND		ug/L	25	50	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
107-02-8	Acrolein	ND	CCVE	ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
107-13-1	Acrylonitrile	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
71-43-2	Benzene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
74-97-5	Bromochloromethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 13:57	SMA
75-27-4	Bromodichloromethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
75-25-2	Bromoform	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 13:57	SMA

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-90-7	Chlorobenzene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-00-3	Chloroethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
67-66-3	Chloroform	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
74-87-3	Chloromethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
110-82-7	**Cyclohexane**	**84**		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
124-48-1	Dibromochloromethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
74-95-3	Dibromomethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
75-71-8	Dichlorodifluoromethane	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
100-41-4	**Ethyl Benzene**	**12**	J	ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA
87-68-3	Hexachlorobutadiene	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
98-82-8	**Isopropylbenzene**	**10**	J	ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA
79-20-9	Methyl acetate	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-87-2	**Methylcyclohexane**	**100**		ug/L	5.0	12	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
75-09-2	Methylene chloride	ND		ug/L	25	50	25	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 13:57 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	**n-Butylbenzene**	**35**		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**20**		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	o-Xylene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**14**	J	ug/L	12	25	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	p-Isopropyltoluene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
135-98-8	sec-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
100-42-5	Styrene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	12	25	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	Toluene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	5.0	12	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	Xylenes, Total	ND		ug/L	15	38	25	EPA 8260D	11/27/2023 09:00	11/27/2023 13:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*69-130*

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.0 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*			*79-122*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			25	EPA 8260C Certifications:	11/27/2023 09:00	11/27/2023 13:57	SMA

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
120-82-1	1,2,4-Trichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
95-50-1	1,2-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 13:07	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
541-73-1	1,3-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 13:07	KH
106-46-7	1,4-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 13:07	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
95-95-4	2,4,5-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
88-06-2	2,4,6-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
120-83-2	2,4-Dichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
105-67-9	2,4-Dimethylphenol	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
121-14-2	2,4-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
606-20-2	2,6-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
91-58-7	2-Chloronaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
95-57-8	2-Chlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
91-57-6	2-Methylnaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
95-48-7	2-Methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
88-74-4	2-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
88-75-5	2-Nitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
65794-96-9	3- & 4-Methylphenols	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
91-94-1	3,3-Dichlorobenzidine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
99-09-2	3-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
101-55-3	4-Bromophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
59-50-7	4-Chloro-3-methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
106-47-8	4-Chloroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
100-01-6	4-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
100-02-7	4-Nitrophenol	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
62-53-3	Aniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
100-52-7	Benzaldehyde	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
92-87-5	Benzidine	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
65-85-0	Benzoic acid	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
100-51-6	Benzyl alcohol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
85-68-7	Benzyl butyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
111-91-1	Bis(2-chloroethoxy)methane	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
111-44-4	Bis(2-chloroethyl)ether	ND	HT-PR	ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
105-60-2	Caprolactam	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:07	KH
86-74-8	Carbazole	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
132-64-9	Dibenzofuran	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
84-66-2	Diethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
131-11-3	Dimethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
84-74-2	Di-n-butyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
117-84-0	Di-n-octyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
77-47-4	Hexachlorocyclopentadiene	ND	HT-PR	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH
78-59-1	Isophorone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:07	KH

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 13:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
86-30-6	N-Nitrosodiphenylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 13:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
108-95-2	Phenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 13:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
6025-45-2	* Resorcinol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	11/29/2023 13:07	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*29.3 %*	HT-PR	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*17.8 %*	HT-PR	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*78.5 %*	HT-PR	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*69.9 %*	HT-PR	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*77.4 %*	HT-PR	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.100**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	KH
208-96-8	Acenaphthylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
120-12-7	Anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
56-55-3	Benzo(a)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
50-32-8	Benzo(a)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
205-99-2	Benzo(b)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
191-24-2	Benzo(g,h,i)perylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
207-08-9	Benzo(k)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005	KH
218-01-9	Chrysene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	KH

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
206-44-0	**Fluoranthene**	**0.0500**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
86-73-7	Fluorene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
118-74-1	Hexachlorobenzene	ND	HT-PR	ug/L	0.0200	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005
87-68-3	Hexachlorobutadiene	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005
67-72-1	Hexachloroethane	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005
193-39-5	Indeno(1,2,3-cd)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-20-3	**Naphthalene**	**0.690**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
98-95-3	Nitrobenzene	ND	HT-PR	ug/L	0.250	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005
62-75-9	N-Nitrosodimethylamine	ND	HT-PR, QL-02	ug/L	0.500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005
85-01-8	Phenanthrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
129-00-0	Pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM Certifications:	11/28/2023 08:04	11/29/2023 02:44	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications:	11/20/2023 13:19	11/22/2023 06:28	KH NJDEP-CT005,NELAC-NY10854

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*87.3 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.5**	**10.7**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Benzene Isomer RT 5.5**	**23.4**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Benzene Isomer RT 5.6**	**23.2**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Benzene Isomer RT 6.0**	**10.9**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Benzene Isomer RT 6.1**	**14.3**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Diethyl Benzene Isomer RT 5.5**	**15.7**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Methyl Propyl Benzene Isome...**	**12.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Propyl Benzene RT 5.0**	**11.0**	J, N	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (01)**	**12.3**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (02)**	**11.9**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:07	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 22:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 22:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 22:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 22:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 22:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 22:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 22:47	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 22:47	BCJ

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*32.0 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.1 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:24	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*96.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*40.0 %*	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.151**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.308**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**234**	B	mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**21.2**		mg/L	0.278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.0140**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**50.3**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**1.24**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**33.8**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**190**	B	mg/L	0.556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:32	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0735**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.142**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**217**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	**Chromium**	**0.00578**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**47.8**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**1.12**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**31.1**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**242**		mg/L	0.556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:22	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**40.8**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**5.39**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:00	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**4.65**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**6.53**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/17/2023 21:46	11/17/2023 22:26	SMK
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	11/29/2023 06:34	11/30/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW9 **York Sample ID:** 23K1273-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 9:45 am	11/17/2023

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.650**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-2016	11/24/2023 09:24	11/24/2023 13:03	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**160**		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
108-67-8	**1,3,5-Trimethylbenzene**	**52**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/27/2023 14:25	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
123-91-1	1,4-Dioxane	ND		ug/L	2000	2000	50	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 14:25	SMA
78-93-3	2-Butanone	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
591-78-6	2-Hexanone	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
67-64-1	Acetone	ND		ug/L	50	100	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
107-02-8	Acrolein	ND	CCVE	ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
107-13-1	Acrylonitrile	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
71-43-2	Benzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
74-97-5	Bromochloromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 14:25	SMA
75-27-4	Bromodichloromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
75-25-2	Bromoform	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:25	SMA

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**88**		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**100**		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**10**	J	ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**68**		ug/L	10	25	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	50	100	50	EPA 8260D	11/27/2023 09:00	11/27/2023 14:25	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	**n-Propylbenzene**	**26**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
95-47-6	**o-Xylene**	**34**		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	**p- & m- Xylenes**	**240**		ug/L	25	50	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	25	50	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE, QL-02, CCVE	ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	10	25	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	**Xylenes, Total**	**270**		ug/L	30	75	50	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*69-130*

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.6 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*			*79-122*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			50	EPA 8260C Certifications:	11/27/2023 09:00	11/27/2023 14:25	SMA

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
120-82-1	1,2,4-Trichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
95-50-1	1,2-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 13:40	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
541-73-1	1,3-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 13:40	KH
106-46-7	1,4-Dichlorobenzene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,PADEP-68-04440	11/29/2023 13:40	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
95-95-4	2,4,5-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
88-06-2	2,4,6-Trichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
120-83-2	2,4-Dichlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
105-67-9	2,4-Dimethylphenol	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
121-14-2	2,4-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
606-20-2	2,6-Dinitrotoluene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
91-58-7	2-Chloronaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
95-57-8	2-Chlorophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
91-57-6	2-Methylnaphthalene	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
95-48-7	2-Methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
88-74-4	2-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
88-75-5	2-Nitrophenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
65794-96-9	3- & 4-Methylphenols	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
91-94-1	3,3-Dichlorobenzidine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
99-09-2	3-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
59-50-7	4-Chloro-3-methylphenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
106-47-8	4-Chloroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
100-01-6	4-Nitroaniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
100-02-7	4-Nitrophenol	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-86-2	Acetophenone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
62-53-3	Aniline	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
100-52-7	Benzaldehyde	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
92-87-5	Benzidine	ND	HT-PR	ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
65-85-0	Benzoic acid	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
100-51-6	Benzyl alcohol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
85-68-7	Benzyl butyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND	HT-PR	ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
105-60-2	Caprolactam	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/29/2023 13:40	KH
86-74-8	Carbazole	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
132-64-9	Dibenzofuran	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
84-66-2	Diethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
131-11-3	Dimethyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
84-74-2	Di-n-butyl phthalate	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
117-84-0	Di-n-octyl phthalate	ND	CCVE, HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
77-47-4	Hexachlorocyclopentadiene	ND	HT-PR	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH
78-59-1	Isophorone	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/29/2023 13:40	KH

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

SVOA, 8270 LOW MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-30-6	N-Nitrosodiphenylamine	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
108-95-2	Phenol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
6025-45-2	* Resorcinol	ND	HT-PR	ug/L	2.50	5.00	1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*29.7 %*	HT-PR	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*17.9 %*	HT-PR	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*77.1 %*	HT-PR	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*67.0 %*	HT-PR	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*78.1 %*	HT-PR	*30.7-106*

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.370**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
208-96-8	Acenaphthylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	**Anthracene**	**0.300**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
56-55-3	**Benzo(a)anthracene**	**0.0800**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
50-32-8	Benzo(a)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.610**	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	**Chrysene**	**0.0900**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

SVOA, 8270 SIM MASTER

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
206-44-0	**Fluoranthene**	**0.440**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
86-73-7	Fluorene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
118-74-1	Hexachlorobenzene	ND	HT-PR	ug/L	0.0200	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
87-68-3	Hexachlorobutadiene	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
67-72-1	Hexachloroethane	ND	HT-PR	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
193-39-5	Indeno(1,2,3-cd)pyrene	ND	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
91-20-3	**Naphthalene**	**0.480**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
98-95-3	Nitrobenzene	ND	HT-PR	ug/L	0.250	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
62-75-9	N-Nitrosodimethylamine	ND	HT-PR, QL-02	ug/L	0.500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
85-01-8	**Phenanthrene**	**0.290**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
129-00-0	**Pyrene**	**0.310**	HT-PR	ug/L	0.0500	1	EPA 8270D SIM	11/28/2023 08:04	11/29/2023 03:15	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	11/20/2023 13:19	11/22/2023 06:45	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*59.1 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.5**	**110**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Benzene Isomer RT 4.6**	**23.6**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Benzene Isomer RT 5.5**	**26.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Benzene Isomer RT 5.6**	**37.3**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Benzene Isomer RT 6.0 (01)**	**12.8**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Benzene Isomer RT 6.0 (02)**	**11.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Benzene Isomer RT 6.1**	**16.7**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Diethyl Benzene Isomer RT 5.5**	**23.2**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**ethyl methyl Benzene Isomer... (01)**	**30.6**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**ethyl methyl Benzene Isomer... (02)**	**18.9**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Mehtyl Propyl Benzene Isome...**	**10.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**methyl methylethyl Benzene ...**	**26.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (01)**	**36.2**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (02)**	**97.2**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			
NA	**Unknown RT 6.5**	**15.4**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	11/29/2023 13:40	KH
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 23:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	11/21/2023 08:04	11/21/2023 23:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B Certifications:	11/21/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/21/2023 23:08	BCJ

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/21/2023 08:04	11/21/2023 23:08	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*25.4 %*	S-08, S-GC	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*74.8 %*		*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/21/2023 08:04	11/22/2023 05:40	BCJ
							Certifications:			

	Surrogate Recoveries	Result		Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*97.0 %*		*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*29.0 %*	S-GC, S-08	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.256**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-39-3	**Barium**	**0.326**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**246**	B	mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**10.7**		mg/L	0.278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**0.0238**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**48.0**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.855**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**32.9**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**227**	B	mg/L	0.556	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:23	11/30/2023 15:34	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0770**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.165**		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**230**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.00584**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**46.0**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.760**		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**30.5**		mg/L	0.0556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**294**		mg/L	0.556	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/28/2023 08:31	11/28/2023 18:25	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.88**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Metals, Target Analyte, ICPMS

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	**Selenium**	**8.29**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:03	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:28	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-38-2	**Arsenic**	**1.67**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:28	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:28	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:28	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7782-49-2	**Selenium**	**8.22**	B, M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:28	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:35	11/28/2023 17:28	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury by 7470/7471

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW10 **York Sample ID:** 23K1273-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Ground Water	November 17, 2023 11:05 am	11/17/2023

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/17/2023 21:46	11/17/2023 22:26	SMK
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	11/29/2023 06:34	11/30/2023 18:34	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**1.20**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	11/24/2023 09:24	11/24/2023 13:03	JAMT
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23K1273-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/27/2023 09:00	11/27/2023 12:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/27/2023 09:00	11/27/2023 12:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/27/2023 09:00	11/27/2023 12:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/27/2023 09:00	11/27/2023 12:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/27/2023 09:00	11/27/2023 12:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K1273-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	**Acetone**	**1.8**	J	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K1273-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K1273-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 12:04	SMA
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 12:04	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 12:04	SMA
75-09-2	**Methylene chloride**	**1.0**	J	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	11/27/2023 12:04	SMA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/27/2023 12:04	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68	11/27/2023 12:04	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/27/2023 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	11/27/2023 12:04	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 23K1273-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 12:04	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*107 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/27/2023 09:00	11/27/2023 12:04	SMA

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K1273-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K1273-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K1273-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
107-02-8	Acrolein	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04	SMA
75-27-4	**Bromodichloromethane**	**0.58**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
67-66-3	**Chloroform**	**7.9**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C	SMA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	SMA

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K1273-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K1273-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1273	220293 100 E. 149th St. Bronx, NY	Water	November 17, 2023 3:00 pm	11/17/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/27/2023 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT	11/27/2023 14:54	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*110 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/27/2023 09:00	11/27/2023 14:54	SMA

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K1273-01	23MW1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1273-02	23MW2	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1273-03	23MW3	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1273-04	23MW8	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1273-05	23MW9	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1273-06	23MW10	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1273-07	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1273-08	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

N	The Tentatively Identified Compound reported indicates the presence of an possible analyte or class of analyte that has been 'tentatively identified' and the associated numerical value represents its estimated concentration.
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
HT-PR	Sample was prepared outside of the recommended holding time.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater than the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
S-08	The recovery of this surrogate was outside of QC limits.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.

Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K1273

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th St. Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Firat Ataman

Matrix Codes: S - soil / solid; GW - groundwater; DW - drinking water; WW - wastewater; O - Oil ¦ Other

Samples From: New York ✓; New Jersey; Connecticut; Pennsylvania; Other

Report / EDD Type (circle selections): Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.: Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
23MW1	GW	11/17/23 11:50	TCL+10 VOCs and TICs, TCL+20 SVOCs and	4 ambers
23MW2	↓	13:55	TICs, Pesticide/PCBs via EPA Method	4 plastic
23MW3		14:30	8081/8082, 21 PFAS compounds via EPA Method	3 vials
23MW8		8:20	1633, 1,4-dioxane via EPA Method 8270SIM,	↓
23MW9		9:45	TAL Metals (filtered and unfiltered) + Cyanide	
23MW10	↓	11:05	and Hexavalent Chromium	↓
			↓	
Trip Blank	0			2 vials
Field Blank	0			3 vials

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction: Field Filtered ____ Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	11/17 1500	Ramon York	11/17 1500	Ramon York	11/17 20:00
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by / Date/Time	Temp. Received at Lab
				11/17/23 20:00	3.9 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/01/2023
Client Project ID: 220293 100 E. 149th St. Bronx NY
York Project (SDG) No.: 23K1442

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/01/2023
Client Project ID: 220293 100 E. 149th St. Bronx NY
York Project (SDG) No.: 23K1442

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 21, 2023 and listed below. The project was identified as your project: **220293 100 E. 149th St. Bronx NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K1442-01	23MW4	Ground Water	11/21/2023	11/21/2023
23K1442-02	23MW5	Ground Water	11/21/2023	11/21/2023
23K1442-03	23MW6	Ground Water	11/21/2023	11/21/2023
23K1442-04	23MW7	Ground Water	11/21/2023	11/21/2023
23K1442-05	Field Blank	Ground Water	11/21/2023	11/21/2023
23K1442-06	Trip Blank	Ground Water	11/21/2023	11/21/2023

General Notes for York Project (SDG) No.: 23K1442

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 12/01/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**62**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**38**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	ug/L	400	400	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	**Acetone**	**38**	ICVE	ug/L	10	20	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
107-02-8	Acrolein	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	**Benzene**	**74**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
74-97-5	Bromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**160**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**65**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	**Isopropylbenzene**	**17**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**150**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		ug/L	10	20	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**4.8**	J	ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**37**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**11**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**78**		ug/L	5.0	10	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**2.7**	J	ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**4.1**	J	ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	5.0	10	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**12**		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	2.0	5.0	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	**Xylenes, Total**	**89**		ug/L	6.0	15	10	EPA 8260D	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*98.1 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Cyclopentane methyl isomer**	**110**	J	ug/L			10	EPA 8260C	11/28/2023 09:00	11/28/2023 16:29	SMA
								Certifications:			

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	NELAC-NY10854,PADEP-68-04440		
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	NELAC-NY10854,NJDEP-CT005,PADEP-68-04440		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
105-67-9	**2,4-Dimethylphenol**	**2.81**	J	ug/L	2.78	5.56	1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
99-09-2	3-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		ug/L	5.56	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65-85-0	Benzoic acid	ND	CAL-E, CCVE	ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 10:08	KH-
100-51-6	Benzyl alcohol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 10:08	KH-
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.11	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
105-60-2	Caprolactam	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 10:08	KH-
86-74-8	Carbazole	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
132-64-9	Dibenzofuran	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
84-66-2	Diethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
131-11-3	Dimethyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	ug/L	5.56	11.1	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
78-59-1	Isophorone	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
108-95-2	Phenol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 10:08	KH-
6025-45-2	* Resorcinol	ND		ug/L	2.78	5.56	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 10:08	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*42.4 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*30.5 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*102 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*105 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*102 %*	*30.7-106*

Semi-volatiles, 8270 (SIM)

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
208-96-8	Acenaphthylene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	**Bis(2-ethylhexyl)phthalate**	**26.3**		ug/L	5.56	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND		ug/L	0.222	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	5.56	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	5.56	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	Naphthalene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
98-95-3	Nitrobenzene	ND		ug/L	2.78	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	5.56	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	Pyrene	ND		ug/L	0.556	10	EPA 8270D SIM	11/28/2023 08:07	12/01/2023 15:13	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	11/27/2023 08:19	11/27/2023 21:12	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*69.8 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**2,3 Dihydro-1H-Inden-1-one ...**	**44.3**	N, J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**Indene Isomer RT 6.0**	**19.5**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**U8.3nknown Hydrocarbon RT**	**12.5**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**Unknown Fatty Acid RT 10.2**	**14.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**UNKNOWN FATTY ACID RT 11.4**	**16.9**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**Unknown Hydrocarbon RT 7.0**	**333**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**Unknown RT 14.5**	**11.7**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**Unknown RT 15.2**	**12.2**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**Unknown RT 15.4**	**42.2**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			
NA	**Unknown RT 6.5**	**14.7**	J	ug/L			1	EPA 8270D	11/28/2023 08:07	12/01/2023 10:08	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 18:57	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.3 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:18	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/27/2023 07:22	11/28/2023 17:18	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/27/2023 07:22	11/28/2023 17:18	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/27/2023 07:22	11/28/2023 17:18	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/27/2023 07:22	11/28/2023 17:18	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/27/2023 07:22	11/28/2023 17:18	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/27/2023 07:22	11/28/2023 17:18	BCJ NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A Certifications:	11/27/2023 07:22	11/28/2023 17:18	BCJ

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.5 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*72.0 %*	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.153**		mg/L	0.0556	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-39-3	**Barium**	**0.122**		mg/L	0.0278	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-70-2	**Calcium**	**157**		mg/L	0.0556	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7439-89-6	**Iron**	**2.01**		mg/L	0.278	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7439-92-1	**Lead**	**0.0327**	B	mg/L	0.00556	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7439-95-4	**Magnesium**	**22.7**		mg/L	0.0556	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7439-96-5	**Manganese**	**0.320**		mg/L	0.00556	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D Certifications:	11/29/2023 08:38	12/01/2023 16:46	CEG CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-09-7	**Potassium**	**22.7**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**68.8**	M-BS	mg/L	0.556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:46	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.175**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.0735**		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**174**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.00944**	B	mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**25.2**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.307**		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**24.2**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**68.1**	M-BS	mg/L	0.556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:22	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND	M-CCV 1	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:37	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.60**		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:37	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND	M-CCV 1	ug/L	0.333	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:37	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND	M-CCV 1	ug/L	0.556	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:37	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	**Selenium**	**3.54**	B	ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:37	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/28/2023 08:29	11/28/2023 16:37	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:32	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.96**		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:32	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:32	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:32	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:32	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:32	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0003**		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW4 **York Sample ID:** 23K1442-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 9:50 am	11/21/2023

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/21/2023 22:08	11/21/2023 23:07	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	12/01/2023 13:13	12/01/2023 18:40	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.258**		mg/L	0.0200	2	SM 4500 CN C-2016 / E-201(	11/27/2023 14:37	11/27/2023 22:47	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**63**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**43**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	ug/L	200	200	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
78-93-3	2-Butanone	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
591-78-6	2-Hexanone	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-64-1	Acetone	ND	ICVE	ug/L	5.0	10	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	**Benzene**	**64**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**210**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**61**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**33**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**280**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	**n-Butylbenzene**	**9.8**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**82**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**15**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**40**		ug/L	2.5	5.0	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**7.8**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**5.9**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	2.5	5.0	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**16**		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	1.0	2.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**55**		ug/L	3.0	7.5	5	EPA 8260D	11/28/2023 09:00	11/28/2023 16:56	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*87.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene ethyl dimethyl isomer**	**59**	J	ug/L			5	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 16:56	SMA
NA	**Benzene ethyl methyl isomer**	**120**	J	ug/L			5	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 16:56	SMA
NA	**Cyclopentane methyl isomer**	**100**	J	ug/L			5	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 16:56	SMA
NA	**Indane methyl isomer**	**58**	J	ug/L			5	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 16:56	SMA
NA	**Indene dihydro methyl isomer**	**57**	J	ug/L			5	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 16:56	SMA

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,PADEP-68-04440	12/01/2023 12:08	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,PADEP-68-04440	12/01/2023 12:08	KH-
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,PADEP-68-04440	12/01/2023 12:08	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
91-58-7	2-Chloronaphthalene	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-57-8	2-Chlorophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
91-57-6	**2-Methylnaphthalene**	**30.2**		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04	12/01/2023 12:08	KH-
95-48-7	2-Methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
88-74-4	2-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
88-75-5	2-Nitrophenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
99-09-2	3-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
106-47-8	4-Chloroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
100-01-6	4-Nitroaniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
100-02-7	4-Nitrophenol	ND		ug/L	5.26	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
98-86-2	Acetophenone	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
62-53-3	Aniline	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
100-52-7	Benzaldehyde	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
92-87-5	Benzidine	ND		ug/L	5.26	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
65-85-0	Benzoic acid	ND	CAL-E, CCVE	ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
100-51-6	Benzyl alcohol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 12:08	KH-
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 12:08	KH-

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.05	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-60-2	Caprolactam	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
86-74-8	Carbazole	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
132-64-9	Dibenzofuran	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-66-2	Diethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
131-11-3	Dimethyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
117-84-0	Di-n-octyl phthalate	ND	CAL-E	ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	ug/L	5.26	10.5	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
78-59-1	Isophorone	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
108-95-2	Phenol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
6025-45-2	* Resorcinol	ND		ug/L	2.63	5.26	1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*41.1 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*24.7 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*87.8 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*92.5 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*105 %*	*30.7-106*

Semi-volatiles, 8270 (SIM)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	2.63	50	EPA 8270D SIM Certifications:	11/28/2023 08:07	11/30/2023 16:51	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
208-96-8	Acenaphthylene	ND		ug/L	2.63	50	EPA 8270D SIM Certifications:	11/28/2023 08:07	11/30/2023 16:51	KH CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Semi-volatiles, 8270 (SIM)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	**Anthracene**	**2.63**		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
56-55-3	Benzo(a)anthracene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	26.3	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	Fluoranthene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
86-73-7	Fluorene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND	CCVE	ug/L	1.05	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	26.3	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	26.3	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**75.3**		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		ug/L	13.2	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	26.3	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	**Phenanthrene**	**2.63**		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
129-00-0	Pyrene	ND		ug/L	2.63	50	EPA 8270D SIM	11/28/2023 08:07	11/30/2023 16:51	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM Certifications: NJDEP-CT005,NELAC-NY10854	11/27/2023 08:19	11/27/2023 21:29	KH

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*68.4 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.00		ug/L			1	EPA 8270D Certifications:	11/28/2023 08:07	12/01/2023 12:08	KH-

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/27/2023 07:22	11/28/2023 19:14	BCJ

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:14	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*42.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*63.9 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:31	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*53.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*45.5 %*	*30-120*

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.127**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.209**		mg/L	0.0278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**116**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**10.2**		mg/L	0.278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**0.0194**	B	mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**40.9**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.792**		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**34.6**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**188**	M-BS	mg/L	0.556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 16:49	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-39-3	**Barium**	**0.0845**		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**122**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**43.6**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.766**		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**35.6**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**187**	M-BS	mg/L	0.556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:25	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**1.57**		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:11	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:35	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:35	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:35	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:35	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:35	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:35	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/21/2023 22:08	11/21/2023 23:07	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	12/01/2023 13:13	12/01/2023 18:40	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	11/27/2023 14:37	11/27/2023 22:47	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW5 **York Sample ID:** 23K1442-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 10:45 am	11/21/2023

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
95-63-6	**1,2,4-Trimethylbenzene**	**2.4**	J	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
106-93-4	1,2-Dibromoethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-06-2	1,2-Dichloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
78-87-5	1,2-Dichloropropane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-67-8	**1,3,5-Trimethylbenzene**	**1.5**	J	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	200	200	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND		ug/L	5.0	10	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	**Benzene**	**22**		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
74-97-5	Bromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-83-9	Bromomethane	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-15-0	Carbon disulfide	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
56-23-5	Carbon tetrachloride	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-90-7	Chlorobenzene	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-00-3	Chloroethane	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-66-3	Chloroform	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-87-3	Chloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-82-7	**Cyclohexane**	**38**	CCVE	ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
124-48-1	Dibromochloromethane	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**2.6**		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**22**	CCVE	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**34**		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	5.0	10	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	**n-Butylbenzene**	**10**		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**21**	CCVE	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**1.4**	J	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**4.0**	J	ug/L	2.5	5.0	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**1.3**	J	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**6.9**	CCVE	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	2.5	5.0	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**1.4**	J	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
127-18-4	Tetrachloroethylene	ND	ICVE	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**2.8**		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:01	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	1.0	2.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	**Xylenes, Total**	**5.4**	J	ug/L	3.0	7.5	5	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.0 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			5	EPA 8260C Certifications:	11/29/2023 09:00	11/29/2023 14:01	SMA

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,PADEP-68-04440
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,PADEP-68-04440
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,PADEP-68-04440
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 11:08	KH-
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
65-85-0	Benzoic acid	ND	CAL-E, CCVE	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 11:08	KH-
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 11:08	KH-
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 11:08	KH-
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:08	KH-
6025-45-2	* Resorcinol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:08	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*35.7 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*20.9 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*80.2 %*	*50.2-113*

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*82.6 %*			*39.9-105*						
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*96.6 %*			*30.7-106*						

Semi-volatiles, 8270 (SIM)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.240**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
208-96-8	**Acenaphthylene**	**0.100**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
120-12-7	Anthracene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.160**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	**Fluorene**	**0.140**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
118-74-1	Hexachlorobenzene	ND	CCVE	ug/L	0.0400	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**2.16**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		ug/L	0.500	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Semi-volatiles, 8270 (SIM)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
62-75-9	N-Nitrosodimethylamine	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005			
85-01-8	**Phenanthrene**	**0.300**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			
129-00-0	**Pyrene**	**0.120**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:21	KH
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04			

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	11/27/2023 08:19	11/27/2023 21:47	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*76.5 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.9**	**23.7**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:08	KH-
								Certifications:			
NA	**Benzene Isomer RT 5.4**	**13.0**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:08	KH-
								Certifications:			
NA	**Benzene Isomer RT 5.5**	**14.5**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:08	KH-
								Certifications:			
NA	**Benzene Isomer RT 5.6**	**13.7**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:08	KH-
								Certifications:			
NA	**Diethyl Benzene Isomer RT 5.0**	**11.0**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:08	KH-
								Certifications:			
NA	**Sulfur RT 11.2**	**29.3**	N, J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:08	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:32	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result		Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*46.5 %*		*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*170 %*	S-08, S-GC	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:45	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*60.0 %*	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.336**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.198**		mg/L	0.0278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**264**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**0.848**		mg/L	0.278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**0.0148**	B	mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**31.7**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**1.34**		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**22.1**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**36.0**		mg/L	0.556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:12	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0822**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.181**		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**263**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	**Lead**	**0.00847**	B	mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**31.8**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**1.34**		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**22.1**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**35.6**	M-BS	mg/L	0.556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:28	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**2.80**		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:14	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**3.97**		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:39	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW6 **York Sample ID:** 23K1442-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 11:50 am	11/21/2023

Mercury, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/21/2023 22:08	11/21/2023 23:07	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	12/01/2023 13:13	12/01/2023 18:40	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.122**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	11/27/2023 14:37	11/27/2023 22:47	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	**1,2,4-Trimethylbenzene**	**21**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	**1,3,5-Trimethylbenzene**	**54**		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE, ICVE	ug/L	40	40	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND	ICVE	ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	**Cyclohexane**	**74**	CCVE	ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	**Ethyl Benzene**	**35**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	**Isopropylbenzene**	**9.2**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	**Methylcyclohexane**	**85**		ug/L	1.0	2.5	5	EPA 8260D	11/29/2023 09:00	11/29/2023 14:29	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-0		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	**n-Butylbenzene**	**4.7**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
103-65-1	**n-Propylbenzene**	**24**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
95-47-6	**o-Xylene**	**3.2**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
179601-23-1	**p- & m- Xylenes**	**11**		ug/L	0.50	1.0	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68		
99-87-6	**p-Isopropyltoluene**	**3.8**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
135-98-8	**sec-Butylbenzene**	**2.6**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-06-6	**tert-Butylbenzene**	**0.31**	J	ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
127-18-4	Tetrachloroethylene	ND	CCVE, ICVE, QL-02	ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-88-3	**Toluene**	**2.6**		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
1330-20-7	**Xylenes, Total**	**15**		ug/L	0.60	1.5	1	EPA 8260D	11/28/2023 09:00	11/28/2023 17:49	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*77.9 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.7 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene diethyl isomer**	**13**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
NA	**Benzene ethyl dimethyl isomer**	**12**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
NA	**Benzene ethyl methyl isomer**	**45**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
050704-01-3	**benzene isomer**	**21**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
NA	**Benzene tetramethyl isomer**	**10**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
NA	**Cyclopentane methyl isomer**	**36**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
NA	**Cyclopentene trimethyl isomer**	**13**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
NA	**Indene dihydro methyl isomer**	**12**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA
NA	**Pentane methyl isomer**	**22**	J	ug/L			1	EPA 8260C Certifications:	11/28/2023 09:00	11/28/2023 17:49	SMA

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	12/01/2023 11:38	KH-
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	12/01/2023 11:38	KH-
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	12/01/2023 11:38	KH-
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/28/2023 08:04	12/01/2023 11:38	KH-
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	12/01/2023 11:38	KH-
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/28/2023 08:04	12/01/2023 11:38	KH-
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,PADEP-68-04440	11/28/2023 08:04	12/01/2023 11:38	KH-
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	11/28/2023 08:04	12/01/2023 11:38	KH-
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	12/01/2023 11:38	KH-
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	12/01/2023 11:38	KH-
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	12/01/2023 11:38	KH-
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	11/28/2023 08:04	12/01/2023 11:38	KH-

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
51-28-5	2,4-Dinitrophenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
121-14-2	2,4-Dinitrotoluene	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-57-6	2-Methylnaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
91-94-1	3,3-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
534-52-1	4,6-Dinitro-2-methylphenol	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
100-02-7	4-Nitrophenol	ND		ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- NELAC-NY10854,NJDEP-CT005,PADEP-68-04440
92-87-5	Benzidine	ND		ug/L	5.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH- CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Semi-Volatiles, 8270 Comprenhensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
65-85-0	Benzoic acid	ND	CAL-E, CCVE	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 11:38	KH-
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 11:38	KH-
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	1.00	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
108-60-1	Bis(2-chloroisopropyl)ether	ND	CCVE	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 NELAC-NY10854,NJDEP-CT005,PADEP-68-04440	12/01/2023 11:38	KH-
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
117-84-0	Di-n-octyl phthalate	ND	CAL-E	ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
77-47-4	Hexachlorocyclopentadiene	ND	CCVE, ICVE	ug/L	5.00	10.0	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04 CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044	12/01/2023 11:38	KH-
6025-45-2	* Resorcinol	ND		ug/L	2.50	5.00	1	EPA 8270D Certifications:	11/28/2023 08:04	12/01/2023 11:38	KH-

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: SURR: 2-Fluorophenol*	*38.2 %*	*19.7-63.1*
13127-88-3	*Surrogate: SURR: Phenol-d6*	*22.7 %*	*10.1-41.7*
4165-60-0	*Surrogate: SURR: Nitrobenzene-d5*	*87.2 %*	*50.2-113*
321-60-8	*Surrogate: SURR: 2-Fluorobiphenyl*	*93.6 %*	*39.9-105*
1718-51-0	*Surrogate: SURR: Terphenyl-d14*	*104 %*	*30.7-106*

Semi-volatiles, 8270 (SIM)

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.120**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
208-96-8	Acenaphthylene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
120-12-7	Anthracene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
56-55-3	Benzo(a)anthracene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
50-32-8	Benzo(a)pyrene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
218-01-9	Chrysene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
206-44-0	**Fluoranthene**	**0.180**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
86-73-7	Fluorene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
118-74-1	Hexachlorobenzene	ND	CCVE	ug/L	0.0400	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
87-68-3	Hexachlorobutadiene	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
67-72-1	Hexachloroethane	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
91-20-3	**Naphthalene**	**0.560**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
98-95-3	Nitrobenzene	ND		ug/L	0.500	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
62-75-9	N-Nitrosodimethylamine	ND		ug/L	1.00	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005		
85-01-8	Phenanthrene	ND		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
129-00-0	**Pyrene**	**0.220**		ug/L	0.100	2	EPA 8270D SIM	11/28/2023 08:04	11/30/2023 17:52	KH
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Semi-Volatiles, 1,4-Dioxane 8270 SIM-Aqueous

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Sample Prepared by Method: EPA 3535A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ug/L	0.300	1	EPA 8270D SIM	11/27/2023 08:19	11/27/2023 22:05	KH
							Certifications: NJDEP-CT005,NELAC-NY10854			

	Surrogate Recoveries	Result	Acceptance Range
17647-74-4	*Surrogate: 1,4-Dioxane-d8*	*74.6 %*	*36.6-118*

Semi-Volatiles, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	**Benzene Isomer RT 4.9**	**18.5**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:38	KH-
								Certifications:			
NA	**Benzene Isomer RT 5.6**	**15.3**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:38	KH-
								Certifications:			
NA	**ethyl dimethyl Benzene Isom...**	**22.2**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:38	KH-
								Certifications:			
NA	**Tetramethyl Benzene Isomer ...**	**10.1**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:38	KH-
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (01)**	**43.0**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:38	KH-
								Certifications:			
NA	**Trimethyl Benzene Isomer RT... (02)**	**38.6**	J	ug/L			1	EPA 8270D	11/28/2023 08:04	12/01/2023 11:38	KH-
								Certifications:			

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
72-55-9	4,4'-DDE	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
50-29-3	4,4'-DDT	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
309-00-2	Aldrin	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-84-6	alpha-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
5103-71-9	alpha-Chlordane	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-85-7	beta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
57-74-9	Chlordane, total	ND		ug/L	0.0200	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			
319-86-8	delta-BHC	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044			

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
60-57-1	Dieldrin	ND		ug/L	0.00200	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
959-98-8	Endosulfan I	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
33213-65-9	Endosulfan II	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1031-07-8	Endosulfan sulfate	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-20-8	Endrin	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7421-93-4	Endrin aldehyde	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
53494-70-5	Endrin ketone	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
5566-34-7	gamma-Chlordane	ND		ug/L	0.0100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
76-44-8	Heptachlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
1024-57-3	Heptachlor epoxide	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
72-43-5	Methoxychlor	ND		ug/L	0.00400	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
8001-35-2	Toxaphene	ND		ug/L	0.100	1	EPA 8081B	11/27/2023 07:22	11/28/2023 19:50	BCJ
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

	Surrogate Recoveries	Result	Acceptance Range
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.2 %*	*30-150*
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*54.6 %*	*30-150*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		
1336-36-3	* Total PCBs	ND		ug/L	0.0500	1	EPA 8082A	11/27/2023 07:22	11/28/2023 17:59	BCJ
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*52.0 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.0 %*	*30-120*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.388**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.147**		mg/L	0.0278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**170**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	**Iron**	**7.66**		mg/L	0.278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-92-1	**Lead**	**0.0526**	B	mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-95-4	**Magnesium**	**25.5**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.658**		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**18.8**		mg/L	0.0556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**41.1**		mg/L	0.556	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/29/2023 08:38	12/01/2023 17:15	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.0958**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-39-3	**Barium**	**0.0828**		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-70-2	**Calcium**	**166**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7439-95-4	**Magnesium**	**25.0**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7439-96-5	**Manganese**	**0.622**		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-09-7	**Potassium**	**18.4**		mg/L	0.0556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-23-5	**Sodium**	**41.2**	M-BS	mg/L	0.556	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/30/2023 08:46	12/01/2023 17:31	CEG
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**18.3**		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:42	12/01/2023 12:17	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-38-2	**Arsenic**	**7.45**		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7782-49-2	Selenium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/30/2023 08:49	11/30/2023 15:52	cw
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0012**		mg/L	0.0002	1	EPA 7470	11/28/2023 09:09	11/28/2023 09:09	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-04		

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/28/2023 09:12	11/28/2023 09:12	PFA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP-CT005,PADEP-68-044		

Sample Information

Client Sample ID: 23MW7 **York Sample ID:** 23K1442-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 12:50 pm	11/21/2023

Chromium, Hexavalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/L	0.0100	1	EPA 7196A	11/21/2023 22:08	11/21/2023 23:07	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-044		

Chromium, Trivalent

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16065-83-1	* Chromium, Trivalent	ND		mg/L	0.0100	1	Calculation	12/01/2023 13:13	12/01/2023 18:40	ZTS
							Certifications:			

Cyanide, Total

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	**Cyanide, total**	**0.0580**		mg/L	0.0100	1	SM 4500 CN C-2016 / E-201(	11/27/2023 14:37	11/27/2023 22:47	SL
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP-CT005,PADEP-68-04		

Sample Information

Client Sample ID: Field Blank **York Sample ID:** 23K1442-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K1442-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K1442-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	**Chloromethane**	**0.57**		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 14:57	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-		

Sample Information

Client Sample ID: **Field Blank** **York Sample ID:** **23K1442-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68-
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04-
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*104 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*	*79-122*

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/29/2023 09:00	11/29/2023 14:57	SMA

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K1442-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K1442-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-87-3	**Chloromethane**	**1.1**		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-C		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D	11/29/2023 09:00	11/29/2023 13:04	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT		

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 23K1442-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP-68
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA NELAC-NY10854,NELAC-NY12058,NJDEP-CT005,PADEP-68-04
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
127-18-4	Tetrachloroethylene	ND	ICVE	ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260D Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP-CT

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **23K1442-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1442	220293 100 E. 149th St. Bronx NY	Ground Water	November 21, 2023 3:00 pm	11/21/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*110 %*			*79-122*						

Volatile Organics, Tentatively Identified Cmpds.

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Tentatively Identified Compounds	0.0		ug/L			1	EPA 8260C Certifications:	11/29/2023 09:00	11/29/2023 13:04	SMA

Analytical Batch Summary

Batch ID: BK31443 **Preparation Method:** Analysis Preparation **Prepared By:** NJO

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/21/23
23K1442-02	23MW5	11/21/23
23K1442-03	23MW6	11/21/23
23K1442-04	23MW7	11/21/23
BK31443-BLK1	Blank	11/21/23
BK31443-BS1	LCS	11/21/23
BK31443-DUP1	Duplicate	11/21/23
BK31443-MS1	Matrix Spike	11/21/23
BK31443-MSD1	Matrix Spike Dup	11/21/23

Batch ID: BK31624 **Preparation Method:** EPA 3535A **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/27/23
23K1442-02	23MW5	11/27/23
23K1442-03	23MW6	11/27/23
23K1442-04	23MW7	11/27/23
BK31624-BLK1	Blank	11/27/23
BK31624-BS1	LCS	11/27/23
BK31624-MS1	Matrix Spike	11/27/23
BK31624-MSD1	Matrix Spike Dup	11/27/23

Batch ID: BK31625 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** RJ

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/27/23
23K1442-01	23MW4	11/27/23
23K1442-02	23MW5	11/27/23
23K1442-02	23MW5	11/27/23
23K1442-03	23MW6	11/27/23
23K1442-03	23MW6	11/27/23
23K1442-04	23MW7	11/27/23
23K1442-04	23MW7	11/27/23
BK31625-BLK1	Blank	11/27/23
BK31625-BLK2	Blank	11/27/23
BK31625-BS1	LCS	11/27/23
BK31625-BS2	LCS	11/27/23
BK31625-BSD1	LCS Dup	11/27/23
BK31625-BSD2	LCS Dup	11/27/23

Batch ID: BK31685 **Preparation Method:** Analysis Preparation **Prepared By:** SL

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/27/23

23K1442-02	23MW5	11/27/23
23K1442-03	23MW6	11/27/23
23K1442-04	23MW7	11/27/23
BK31685-BLK1	Blank	11/27/23
BK31685-BS1	LCS	11/27/23
BK31685-DUP1	Duplicate	11/27/23
BK31685-MS1	Matrix Spike	11/27/23
BK31685-MSD1	Matrix Spike Dup	11/27/23

Batch ID: BK31716 **Preparation Method:** EPA 3510C **Prepared By:** JM

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-03	23MW6	11/28/23
23K1442-03	23MW6	11/28/23
23K1442-04	23MW7	11/28/23
23K1442-04	23MW7	11/28/23
BK31716-BLK2	Blank	11/28/23
BK31716-BS2	LCS	11/28/23
BK31716-MS1	Matrix Spike	11/28/23

Batch ID: BK31717 **Preparation Method:** EPA 3510C **Prepared By:** JJG

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/28/23
23K1442-01	23MW4	11/28/23
23K1442-02	23MW5	11/28/23
23K1442-02	23MW5	11/28/23
BK31717-BLK1	Blank	11/28/23
BK31717-BLK1	Blank	11/28/23

Batch ID: BK31728 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/28/23
BK31728-BLK1	Blank	11/28/23
BK31728-BS1	LCS	11/28/23
BK31728-DUP1	Duplicate	11/28/23
BK31728-MS1	Matrix Spike	11/28/23

Batch ID: BK31750 **Preparation Method:** EPA SW846-7470A **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/28/23
23K1442-02	23MW5	11/28/23
23K1442-03	23MW6	11/28/23
23K1442-04	23MW7	11/28/23
BK31750-BLK1	Blank	11/28/23
BK31750-BS1	LCS	11/28/23
BK31750-DUP1	Duplicate	11/28/23

BK31750-MS1	Matrix Spike	11/28/23
BK31750-MSD1	Matrix Spike Dup	11/28/23

Batch ID: BK31751 **Preparation Method:** EPA SW846-7470A **Prepared By:** PFA

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/28/23
23K1442-02	23MW5	11/28/23
23K1442-03	23MW6	11/28/23
23K1442-04	23MW7	11/28/23
BK31751-BLK1	Blank	11/28/23
BK31751-BLK2	Blank	11/28/23
BK31751-BS1	LCS	11/28/23
BK31751-BS2	LCS	11/28/23

Batch ID: BK31755 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/28/23
23K1442-02	23MW5	11/28/23
23K1442-04	23MW7	11/28/23
BK31755-BLK1	Blank	11/28/23
BK31755-BS1	LCS	11/28/23
BK31755-BSD1	LCS Dup	11/28/23
BK31755-MS1	Matrix Spike	11/28/23
BK31755-MSD1	Matrix Spike Dup	11/28/23

Batch ID: BK31836 **Preparation Method:** EPA 3015A **Prepared By:** AD2

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/29/23
23K1442-02	23MW5	11/29/23
23K1442-03	23MW6	11/29/23
23K1442-04	23MW7	11/29/23
BK31836-BLK1	Blank	11/29/23
BK31836-BS1	LCS	11/29/23
BK31836-DUP1	Duplicate	11/29/23
BK31836-MS1	Matrix Spike	11/29/23
BK31836-PS1	Post Spike	11/29/23

Batch ID: BK31853 **Preparation Method:** EPA 5030B **Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-03	23MW6	11/29/23
23K1442-04RE1	23MW7	11/29/23
23K1442-05	Field Blank	11/29/23
23K1442-06	Trip Blank	11/29/23
BK31853-BLK1	Blank	11/29/23
BK31853-BS1	LCS	11/29/23

BK31853-BSD1	LCS Dup	11/29/23

Batch ID: BK31933 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-02	23MW5	11/30/23
23K1442-03	23MW6	11/30/23
23K1442-04	23MW7	11/30/23
BK31933-BLK1	Blank	11/30/23
BK31933-BS1	LCS	11/30/23
BK31933-DUP1	Duplicate	11/30/23
BK31933-MS1	Matrix Spike	11/30/23

Batch ID: BK31934 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/30/23
23K1442-02	23MW5	11/30/23
23K1442-03	23MW6	11/30/23
23K1442-04	23MW7	11/30/23
BK31934-BLK1	Blank	11/30/23
BK31934-BS1	LCS	11/30/23
BK31934-DUP1	Duplicate	11/30/23
BK31934-MS1	Matrix Spike	11/30/23
BK31934-PS1	Post Spike	11/30/23

Batch ID: BK31935 **Preparation Method:** EPA 3015A **Prepared By:** DBT

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	11/30/23
23K1442-02	23MW5	11/30/23
23K1442-03	23MW6	11/30/23
23K1442-04	23MW7	11/30/23
BK31935-BLK1	Blank	11/30/23
BK31935-BS1	LCS	11/30/23
BK31935-DUP1	Duplicate	11/30/23
BK31935-MS1	Matrix Spike	11/30/23

Batch ID: BL30052 **Preparation Method:** Analysis Preparation **Prepared By:** AD

YORK Sample ID	Client Sample ID	Preparation Date
23K1442-01	23MW4	12/01/23
23K1442-02	23MW5	12/01/23
23K1442-03	23MW6	12/01/23
23K1442-04	23MW7	12/01/23

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
Blank (BK31755-BLK1)									Prepared & Analyzed: 11/28/2023		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
Blank (BK31755-BLK1)										Prepared & Analyzed: 11/28/2023	
Methylcyclohexane	ND	0.50	ug/L								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.8*		*"*	*10.0*		*108*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.85*		*"*	*10.0*		*98.5*	*79-122*				
LCS (BK31755-BS1)										Prepared & Analyzed: 11/28/2023	
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		99.7	82-126				
1,1,1-Trichloroethane	9.8		"	10.0		97.5	78-136				
1,1,2,2-Tetrachloroethane	11		"	10.0		114	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		108	54-165				
1,1,2-Trichloroethane	10		"	10.0		102	82-123				
1,1-Dichloroethane	9.7		"	10.0		97.2	82-129				
1,1-Dichloroethylene	11		"	10.0		109	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		106	40-130				
1,2,3-Trichloropropane	10		"	10.0		103	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		108	65-137				
1,2,4-Trimethylbenzene	10		"	10.0		104	82-132				
1,2-Dibromo-3-chloropropane	11		"	10.0		111	45-147				
1,2-Dibromoethane	10		"	10.0		104	83-124				
1,2-Dichlorobenzene	10		"	10.0		99.9	79-123				
1,2-Dichloroethane	11		"	10.0		108	73-132				
1,2-Dichloropropane	10		"	10.0		103	78-126				
1,3,5-Trimethylbenzene	10		"	10.0		103	80-131				
1,3-Dichlorobenzene	9.9		"	10.0		99.3	86-130				
1,4-Dichlorobenzene	9.7		"	10.0		97.1	85-130				
1,4-Dioxane	100		"	210		49.2	10-349				
2-Butanone	8.8		"	10.0		88.4	49-152				
2-Hexanone	10		"	10.0		102	51-146				
4-Methyl-2-pentanone	11		"	10.0		110	57-145				
Acetone	6.8		"	10.0		68.2	14-150				
Acrolein	5.3		"	10.0		52.9	10-153				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
LCS (BK31755-BS1)								Prepared & Analyzed: 11/28/2023			
Acrylonitrile	10		ug/L	10.0		102	51-150				
Benzene	10		"	10.0		99.7	85-126				
Bromochloromethane	10		"	10.0		103	77-128				
Bromodichloromethane	10		"	10.0		103	79-128				
Bromoform	10		"	10.0		101	78-133				
Bromomethane	9.0		"	10.0		90.2	43-168				
Carbon disulfide	11		"	10.0		107	68-146				
Carbon tetrachloride	9.8		"	10.0		98.2	77-141				
Chlorobenzene	9.9		"	10.0		98.8	88-120				
Chloroethane	10		"	10.0		103	65-136				
Chloroform	9.8		"	10.0		97.5	82-128				
Chloromethane	12		"	10.0		123	43-155				
cis-1,2-Dichloroethylene	10		"	10.0		102	83-129				
cis-1,3-Dichloropropylene	9.9		"	10.0		99.0	80-131				
Cyclohexane	10		"	10.0		101	63-149				
Dibromochloromethane	10		"	10.0		103	80-130				
Dibromomethane	10		"	10.0		103	72-134				
Dichlorodifluoromethane	14		"	10.0		136	44-144				
Ethyl Benzene	10		"	10.0		103	80-131				
Hexachlorobutadiene	11		"	10.0		108	67-146				
Isopropylbenzene	10		"	10.0		99.5	76-140				
Methyl acetate	10		"	10.0		104	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	76-135				
Methylcyclohexane	10		"	10.0		102	72-143				
Methylene chloride	10		"	10.0		100	55-137				
n-Butylbenzene	11		"	10.0		110	79-132				
n-Propylbenzene	10		"	10.0		103	78-133				
o-Xylene	10		"	10.0		101	78-130				
p- & m- Xylenes	21		"	20.0		104	77-133				
p-Isopropyltoluene	10		"	10.0		105	81-136				
sec-Butylbenzene	10		"	10.0		103	79-137				
Styrene	10		"	10.0		102	67-132				
tert-Butyl alcohol (TBA)	62		"	50.0		124	25-162				
tert-Butylbenzene	10		"	10.0		99.6	77-138				
Tetrachloroethylene	5.4		"	10.0		54.1	82-131	Low Bias			
Toluene	10		"	10.0		102	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		100	80-132				
trans-1,3-Dichloropropylene	10		"	10.0		104	78-131				
trans-1,4-dichloro-2-butene	10		"	10.0		104	63-141				
Trichloroethylene	9.6		"	10.0		96.3	82-128				
Trichlorofluoromethane	11		"	10.0		108	67-139				
Vinyl Chloride	12		"	10.0		118	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.6*		*"*	*10.0*		*106*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
LCS Dup (BK31755-BSD1)							Prepared & Analyzed: 11/28/2023				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		100	82-126		0.300	30	
1,1,1-Trichloroethane	9.7		"	10.0		96.6	78-136		0.927	30	
1,1,2,2-Tetrachloroethane	12		"	10.0		120	76-129		4.97	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0		106	54-165		1.40	30	
1,1,2-Trichloroethane	11		"	10.0		108	82-123		6.10	30	
1,1-Dichloroethane	9.7		"	10.0		97.2	82-129		0.00	30	
1,1-Dichloroethylene	11		"	10.0		109	68-138		0.0920	30	
1,2,3-Trichlorobenzene	11		"	10.0		113	40-130		6.10	30	
1,2,3-Trichloropropane	11		"	10.0		110	77-128		6.69	30	
1,2,4-Trichlorobenzene	11		"	10.0		110	65-137		1.65	30	
1,2,4-Trimethylbenzene	10		"	10.0		103	82-132		0.963	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		113	45-147		1.61	30	
1,2-Dibromoethane	11		"	10.0		108	83-124		3.88	30	
1,2-Dichlorobenzene	10		"	10.0		102	79-123		1.59	30	
1,2-Dichloroethane	11		"	10.0		111	73-132		2.46	30	
1,2-Dichloropropane	10		"	10.0		104	78-126		1.07	30	
1,3,5-Trimethylbenzene	10		"	10.0		102	80-131		1.27	30	
1,3-Dichlorobenzene	9.8		"	10.0		98.3	86-130		1.01	30	
1,4-Dichlorobenzene	9.8		"	10.0		97.5	85-130		0.411	30	
1,4-Dioxane	40		"	210		19.1	10-349		88.1	30	Non-dir.
2-Butanone	9.5		"	10.0		95.1	49-152		7.30	30	
2-Hexanone	11		"	10.0		113	51-146		10.0	30	
4-Methyl-2-pentanone	12		"	10.0		121	57-145		9.19	30	
Acetone	7.3		"	10.0		73.3	14-150		7.21	30	
Acrolein	11		"	10.0		109	10-153		69.4	30	Non-dir.
Acrylonitrile	12		"	10.0		115	51-150		12.6	30	
Benzene	10		"	10.0		100	85-126		0.700	30	
Bromochloromethane	11		"	10.0		108	77-128		4.66	30	
Bromodichloromethane	11		"	10.0		105	79-128		2.50	30	
Bromoform	11		"	10.0		108	78-133		6.50	30	
Bromomethane	11		"	10.0		105	43-168		15.5	30	
Carbon disulfide	11		"	10.0		106	68-146		1.22	30	
Carbon tetrachloride	9.8		"	10.0		97.8	77-141		0.408	30	
Chlorobenzene	9.9		"	10.0		98.9	88-120		0.101	30	
Chloroethane	10		"	10.0		104	65-136		1.06	30	
Chloroform	9.8		"	10.0		98.2	82-128		0.715	30	
Chloromethane	12		"	10.0		120	43-155		2.14	30	
cis-1,2-Dichloroethylene	10		"	10.0		102	83-129		0.196	30	
cis-1,3-Dichloropropylene	10		"	10.0		102	80-131		3.08	30	
Cyclohexane	10		"	10.0		101	63-149		0.496	30	
Dibromochloromethane	11		"	10.0		107	80-130		4.01	30	
Dibromomethane	10		"	10.0		105	72-134		1.93	30	
Dichlorodifluoromethane	14		"	10.0		136	44-144		0.515	30	
Ethyl Benzene	10		"	10.0		102	80-131		0.586	30	
Hexachlorobutadiene	10		"	10.0		102	67-146		5.69	30	
Isopropylbenzene	9.7		"	10.0		96.6	76-140		2.96	30	
Methyl acetate	11		"	10.0		109	51-139		4.49	30	
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135		7.73	30	
Methylcyclohexane	10		"	10.0		99.6	72-143		2.09	30	
Methylene chloride	10		"	10.0		103	55-137		2.75	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
LCS Dup (BK31755-BSD1)								Prepared & Analyzed: 11/28/2023			
n-Butylbenzene	11		ug/L	10.0		108	79-132		1.83	30	
n-Propylbenzene	10		"	10.0		99.7	78-133		3.35	30	
o-Xylene	10		"	10.0		101	78-130		0.0989	30	
p- & m- Xylenes	21		"	20.0		103	77-133		1.06	30	
p-Isopropyltoluene	10		"	10.0		102	81-136		2.22	30	
sec-Butylbenzene	10		"	10.0		100	79-137		2.95	30	
Styrene	10		"	10.0		103	67-132		0.780	30	
tert-Butyl alcohol (TBA)	67		"	50.0		135	25-162		7.99	30	
tert-Butylbenzene	9.7		"	10.0		97.3	77-138		2.34	30	
Tetrachloroethylene	5.4		"	10.0		53.6	82-131	Low Bias	0.929	30	
Toluene	10		"	10.0		102	80-127		0.589	30	
trans-1,2-Dichloroethylene	10		"	10.0		101	80-132		0.199	30	
trans-1,3-Dichloropropylene	11		"	10.0		108	78-131		3.95	30	
trans-1,4-dichloro-2-butene	11		"	10.0		108	63-141		3.76	30	
Trichloroethylene	9.5		"	10.0		94.9	82-128		1.46	30	
Trichlorofluoromethane	11		"	10.0		106	67-139		1.40	30	
Vinyl Chloride	12		"	10.0		116	58-145		1.37	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.9*		*"*	*10.0*		*109*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.96*		*"*	*10.0*		*99.6*	*79-122*				
Matrix Spike (BK31755-MS1)	*Source sample: 23K1412-01 (Matrix Spike)							Prepared & Analyzed: 11/28/2023			
1,1,1,2-Tetrachloroethane	12		ug/L	10.0	0.0	118	45-161				
1,1,1-Trichloroethane	12		"	10.0	0.0	123	70-146				
1,1,2,2-Tetrachloroethane	13		"	10.0	0.0	132	74-121	High Bias			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	14		"	10.0	0.0	135	21-217				
1,1,2-Trichloroethane	12		"	10.0	0.0	120	59-146				
1,1-Dichloroethane	12		"	10.0	0.0	120	54-146				
1,1-Dichloroethylene	14		"	10.0	0.46	136	44-165				
1,2,3-Trichlorobenzene	11		"	10.0	0.0	108	40-161				
1,2,3-Trichloropropane	12		"	10.0	0.0	119	74-127				
1,2,4-Trichlorobenzene	11		"	10.0	0.0	115	41-161				
1,2,4-Trimethylbenzene	12		"	10.0	0.0	124	72-129				
1,2-Dibromo-3-chloropropane	12		"	10.0	0.0	117	31-151				
1,2-Dibromoethane	12		"	10.0	0.0	121	75-125				
1,2-Dichlorobenzene	12		"	10.0	0.0	117	63-122				
1,2-Dichloroethane	13		"	10.0	0.0	127	68-131				
1,2-Dichloropropane	12		"	10.0	0.0	124	77-121	High Bias			
1,3,5-Trimethylbenzene	12		"	10.0	0.0	123	69-126				
1,3-Dichlorobenzene	12		"	10.0	0.0	116	74-119				
1,4-Dichlorobenzene	11		"	10.0	0.0	114	70-124				
1,4-Dioxane	64		"	210	0.0	30.7	10-310				
2-Butanone	16		"	10.0	0.0	155	10-193				
2-Hexanone	12		"	10.0	0.0	116	53-133				
4-Methyl-2-pentanone	12		"	10.0	0.0	123	38-150				
Acetone	8.1		"	10.0	0.0	81.2	13-149				
Acrolein	4.8		"	10.0	0.0	47.5	10-195				
Acrylonitrile	12		"	10.0	0.0	123	37-165				
Benzene	13		"	10.0	0.0	125	38-155				
Bromochloromethane	12		"	10.0	0.0	121	75-121				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
Matrix Spike (BK31755-MS1)	*Source sample: 23K1412-01 (Matrix Spike)							Prepared & Analyzed: 11/28/2023			
Bromodichloromethane	12		ug/L	10.0	0.0	124	70-129				
Bromoform	12		"	10.0	0.0	117	66-136				
Bromomethane	12		"	10.0	0.0	122	30-158				
Carbon disulfide	13		"	10.0	0.0	134	10-138				
Carbon tetrachloride	13		"	10.0	0.0	125	71-146				
Chlorobenzene	12		"	10.0	0.0	120	81-117	High Bias			
Chloroethane	13		"	10.0	0.0	131	51-145				
Chloroform	12		"	10.0	0.0	122	80-124				
Chloromethane	15		"	10.0	0.0	147	16-163				
cis-1,2-Dichloroethylene	43		"	10.0	32	110	76-125				
cis-1,3-Dichloropropylene	12		"	10.0	0.0	115	58-131				
Cyclohexane	13		"	10.0	0.0	126	70-130				
Dibromochloromethane	12		"	10.0	0.0	120	71-129				
Dibromomethane	12		"	10.0	0.0	119	76-120				
Dichlorodifluoromethane	17		"	10.0	0.0	171	30-147	High Bias			
Ethyl Benzene	13		"	10.0	0.0	126	72-128				
Hexachlorobutadiene	11		"	10.0	0.0	115	34-166				
Isopropylbenzene	12		"	10.0	0.0	121	66-139				
Methyl acetate	6.5		"	10.0	0.0	64.8	10-200				
Methyl tert-butyl ether (MTBE)	12		"	10.0	0.0	121	75-128				
Methylcyclohexane	12		"	10.0	0.0	121	70-130				
Methylene chloride	12		"	10.0	0.0	120	57-128				
n-Butylbenzene	12		"	10.0	0.0	123	61-138				
n-Propylbenzene	12		"	10.0	0.0	122	66-134				
o-Xylene	12		"	10.0	0.0	122	69-126				
p- & m- Xylenes	25		"	20.0	0.0	126	67-130				
p-Isopropyltoluene	12		"	10.0	0.0	121	64-137				
sec-Butylbenzene	12		"	10.0	0.0	120	53-155				
Styrene	12		"	10.0	0.0	122	69-125				
tert-Butyl alcohol (TBA)	72		"	50.0	0.0	143	10-130	High Bias			
tert-Butylbenzene	12		"	10.0	0.0	119	65-139				
Tetrachloroethylene	11		"	10.0	4.7	65.7	64-139				
Toluene	13		"	10.0	0.0	125	76-123	High Bias			
trans-1,2-Dichloroethylene	13		"	10.0	0.27	127	79-131				
trans-1,3-Dichloropropylene	12		"	10.0	0.0	119	55-130				
trans-1,4-dichloro-2-butene	12		"	10.0	0.0	116	25-155				
Trichloroethylene	22		"	10.0	11	115	53-145				
Trichlorofluoromethane	14		"	10.0	0.0	135	61-142				
Vinyl Chloride	15		"	10.0	0.0	146	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.5*		*"*	*10.0*		*105*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.93*		*"*	*10.0*		*99.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.91*		*"*	*10.0*		*99.1*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
Matrix Spike Dup (BK31755-MSD1)	*Source sample: 23K1412-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/28/2023		
1,1,1,2-Tetrachloroethane	12		ug/L	10.0	0.0	120	45-161		1.60	30	
1,1,1-Trichloroethane	12		"	10.0	0.0	120	70-146		2.30	30	
1,1,2,2-Tetrachloroethane	13		"	10.0	0.0	133	74-121	High Bias	1.06	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13		"	10.0	0.0	134	21-217		0.968	30	
1,1,2-Trichloroethane	12		"	10.0	0.0	121	59-146		1.16	30	
1,1-Dichloroethane	12		"	10.0	0.0	119	54-146		0.917	30	
1,1-Dichloroethylene	14		"	10.0	0.46	132	44-165		2.54	30	
1,2,3-Trichlorobenzene	11		"	10.0	0.0	111	40-161		2.65	30	
1,2,3-Trichloropropane	12		"	10.0	0.0	121	74-127		1.17	30	
1,2,4-Trichlorobenzene	12		"	10.0	0.0	117	41-161		2.24	30	
1,2,4-Trimethylbenzene	12		"	10.0	0.0	123	72-129		0.324	30	
1,2-Dibromo-3-chloropropane	12		"	10.0	0.0	118	31-151		0.512	30	
1,2-Dibromoethane	12		"	10.0	0.0	123	75-125		2.05	30	
1,2-Dichlorobenzene	12		"	10.0	0.0	118	63-122		1.02	30	
1,2-Dichloroethane	13		"	10.0	0.0	127	68-131		0.315	30	
1,2-Dichloropropane	12		"	10.0	0.0	124	77-121	High Bias	0.242	30	
1,3,5-Trimethylbenzene	12		"	10.0	0.0	124	69-126		0.727	30	
1,3-Dichlorobenzene	12		"	10.0	0.0	117	74-119		0.947	30	
1,4-Dichlorobenzene	12		"	10.0	0.0	116	70-124		1.13	30	
1,4-Dioxane	110		"	210	0.0	52.3	10-310		52.1	30	Non-dir.
2-Butanone	15		"	10.0	0.0	150	10-193		3.21	30	
2-Hexanone	12		"	10.0	0.0	121	53-133		4.40	30	
4-Methyl-2-pentanone	13		"	10.0	0.0	126	38-150		2.33	30	
Acetone	7.5		"	10.0	0.0	74.8	13-149		8.21	30	
Acrolein	9.8		"	10.0	0.0	98.5	10-195		69.9	30	Non-dir.
Acrylonitrile	12		"	10.0	0.0	119	37-165		3.56	30	
Benzene	12		"	10.0	0.0	123	38-155		1.69	30	
Bromochloromethane	12		"	10.0	0.0	121	75-121		0.496	30	
Bromodichloromethane	12		"	10.0	0.0	125	70-129		0.321	30	
Bromoform	12		"	10.0	0.0	121	66-136		3.45	30	
Bromomethane	14		"	10.0	0.0	141	30-158		14.9	30	
Carbon disulfide	13		"	10.0	0.0	132	10-138		1.50	30	
Carbon tetrachloride	12		"	10.0	0.0	123	71-146		2.02	30	
Chlorobenzene	12		"	10.0	0.0	121	81-117	High Bias	0.498	30	
Chloroethane	13		"	10.0	0.0	128	51-145		2.17	30	
Chloroform	12		"	10.0	0.0	120	80-124		1.07	30	
Chloromethane	15		"	10.0	0.0	145	16-163		1.37	30	
cis-1,2-Dichloroethylene	42		"	10.0	32	107	76-125		2.49	30	
cis-1,3-Dichloropropylene	12		"	10.0	0.0	116	58-131		1.21	30	
Cyclohexane	12		"	10.0	0.0	125	70-130		1.11	30	
Dibromochloromethane	12		"	10.0	0.0	122	71-129		1.57	30	
Dibromomethane	12		"	10.0	0.0	118	76-120		0.505	30	
Dichlorodifluoromethane	16		"	10.0	0.0	163	30-147	High Bias	4.61	30	
Ethyl Benzene	13		"	10.0	0.0	126	72-128		0.635	30	
Hexachlorobutadiene	12		"	10.0	0.0	118	34-166		3.00	30	
Isopropylbenzene	12		"	10.0	0.0	121	66-139		0.0827	30	
Methyl acetate	12		"	10.0	0.0	120	10-200		60.1	30	Non-dir.
Methyl tert-butyl ether (MTBE)	12		"	10.0	0.0	118	75-128		2.35	30	
Methylcyclohexane	12		"	10.0	0.0	122	70-130		1.15	30	
Methylene chloride	12		"	10.0	0.0	118	57-128		2.02	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31755 - EPA 5030B											
Matrix Spike Dup (BK31755-MSD1)	*Source sample: 23K1412-01 (Matrix Spike Dup)								Prepared & Analyzed: 11/28/2023		
n-Butylbenzene	12		ug/L	10.0	0.0	123	61-138		0.244	30	
n-Propylbenzene	12		"	10.0	0.0	122	66-134		0.328	30	
o-Xylene	12		"	10.0	0.0	124	69-126		1.22	30	
p- & m- Xylenes	25		"	20.0	0.0	127	67-130		0.828	30	
p-Isopropyltoluene	12		"	10.0	0.0	121	64-137		0.248	30	
sec-Butylbenzene	12		"	10.0	0.0	121	53-155		0.747	30	
Styrene	12		"	10.0	0.0	122	69-125		0.491	30	
tert-Butyl alcohol (TBA)	72		"	50.0	0.0	143	10-130	High Bias	0.0977	30	
tert-Butylbenzene	12		"	10.0	0.0	119	65-139		0.337	30	
Tetrachloroethylene	11		"	10.0	4.7	67.1	64-139		2.11	30	
Toluene	13		"	10.0	0.0	126	76-123	High Bias	0.717	30	
trans-1,2-Dichloroethylene	13		"	10.0	0.27	123	79-131		3.13	30	
trans-1,3-Dichloropropylene	12		"	10.0	0.0	119	55-130		0.00	30	
trans-1,4-dichloro-2-butene	12		"	10.0	0.0	120	25-155		3.48	30	
Trichloroethylene	22		"	10.0	11	116	53-145		1.12	30	
Trichlorofluoromethane	13		"	10.0	0.0	134	61-142		0.968	30	
Vinyl Chloride	14		"	10.0	0.0	143	31-165		1.66	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				
Batch BK31853 - EPA 5030B											
Blank (BK31853-BLK1)									Prepared & Analyzed: 11/29/2023		
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
Tentatively Identified Compounds	0.0		"								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31853 - EPA 5030B											
Blank (BK31853-BLK1)									Prepared & Analyzed: 11/29/2023		
Benzene	ND	0.50	ug/L								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.2*		*"*	*10.0*		*102*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.0*		*"*	*10.0*		*110*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31853 - EPA 5030B											
LCS (BK31853-BS1)							Prepared & Analyzed: 11/29/2023				
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		105	82-126				
1,1,1-Trichloroethane	10		"	10.0		100	78-136				
1,1,2,2-Tetrachloroethane	13		"	10.0		129	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		123	54-165				
1,1,2-Trichloroethane	12		"	10.0		120	82-123				
1,1-Dichloroethane	9.8		"	10.0		98.5	82-129				
1,1-Dichloroethylene	12		"	10.0		120	68-138				
1,2,3-Trichlorobenzene	11		"	10.0		115	40-130				
1,2,3-Trichloropropane	11		"	10.0		115	77-128				
1,2,4-Trichlorobenzene	11		"	10.0		114	65-137				
1,2,4-Trimethylbenzene	12		"	10.0		117	82-132				
1,2-Dibromo-3-chloropropane	13		"	10.0		129	45-147				
1,2-Dibromoethane	11		"	10.0		110	83-124				
1,2-Dichlorobenzene	11		"	10.0		111	79-123				
1,2-Dichloroethane	11		"	10.0		112	73-132				
1,2-Dichloropropane	13		"	10.0		125	78-126				
1,3,5-Trimethylbenzene	12		"	10.0		116	80-131				
1,3-Dichlorobenzene	10		"	10.0		102	86-130				
1,4-Dichlorobenzene	11		"	10.0		109	85-130				
1,4-Dioxane	100		"	210		49.3	10-349				
2-Butanone	9.9		"	10.0		98.7	49-152				
2-Hexanone	10		"	10.0		105	51-146				
4-Methyl-2-pentanone	13		"	10.0		132	57-145				
Acetone	7.1		"	10.0		70.6	14-150				
Acrolein	9.8		"	10.0		98.0	10-153				
Acrylonitrile	11		"	10.0		109	51-150				
Benzene	11		"	10.0		112	85-126				
Bromochloromethane	11		"	10.0		114	77-128				
Bromodichloromethane	11		"	10.0		110	79-128				
Bromoform	10		"	10.0		105	78-133				
Bromomethane	9.5		"	10.0		95.0	43-168				
Carbon disulfide	12		"	10.0		121	68-146				
Carbon tetrachloride	11		"	10.0		106	77-141				
Chlorobenzene	11		"	10.0		111	88-120				
Chloroethane	11		"	10.0		106	65-136				
Chloroform	11		"	10.0		112	82-128				
Chloromethane	10		"	10.0		101	43-155				
cis-1,2-Dichloroethylene	12		"	10.0		118	83-129				
cis-1,3-Dichloropropylene	11		"	10.0		107	80-131				
Cyclohexane	12		"	10.0		124	63-149				
Dibromochloromethane	11		"	10.0		108	80-130				
Dibromomethane	11		"	10.0		108	72-134				
Dichlorodifluoromethane	11		"	10.0		109	44-144				
Ethyl Benzene	10		"	10.0		102	80-131				
Hexachlorobutadiene	12		"	10.0		118	67-146				
Isopropylbenzene	12		"	10.0		119	76-140				
Methyl acetate	9.9		"	10.0		98.7	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	76-135				
Methylcyclohexane	11		"	10.0		112	72-143				
Methylene chloride	12		"	10.0		117	55-137				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31853 - EPA 5030B											
LCS (BK31853-BS1)								Prepared & Analyzed: 11/29/2023			
n-Butylbenzene	9.2		ug/L	10.0		92.0	79-132				
n-Propylbenzene	12		"	10.0		117	78-133				
o-Xylene	9.8		"	10.0		98.3	78-130				
p- & m- Xylenes	20		"	20.0		101	77-133				
p-Isopropyltoluene	10		"	10.0		101	81-136				
sec-Butylbenzene	12		"	10.0		119	79-137				
Styrene	9.7		"	10.0		96.9	67-132				
tert-Butyl alcohol (TBA)	57		"	50.0		114	25-162				
tert-Butylbenzene	11		"	10.0		113	77-138				
Tetrachloroethylene	8.8		"	10.0		87.5	82-131				
Toluene	12		"	10.0		116	80-127				
trans-1,2-Dichloroethylene	10		"	10.0		104	80-132				
trans-1,3-Dichloropropylene	11		"	10.0		107	78-131				
trans-1,4-dichloro-2-butene	12		"	10.0		117	63-141				
Trichloroethylene	11		"	10.0		112	82-128				
Trichlorofluoromethane	11		"	10.0		106	67-139				
Vinyl Chloride	10		"	10.0		103	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.90*		*"*	*10.0*		*99.0*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*79-122*				
LCS Dup (BK31853-BSD1)								Prepared & Analyzed: 11/29/2023			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126		0.670	30	
1,1,1-Trichloroethane	10		"	10.0		100	78-136		0.0996	30	
1,1,2,2-Tetrachloroethane	13		"	10.0		128	76-129		0.545	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13		"	10.0		129	54-165		5.24	30	
1,1,2-Trichloroethane	12		"	10.0		118	82-123		1.77	30	
1,1-Dichloroethane	10		"	10.0		99.7	82-129		1.21	30	
1,1-Dichloroethylene	12		"	10.0		123	68-138		2.56	30	
1,2,3-Trichlorobenzene	12		"	10.0		120	40-130		4.59	30	
1,2,3-Trichloropropane	11		"	10.0		115	77-128		0.174	30	
1,2,4-Trichlorobenzene	12		"	10.0		116	65-137		2.09	30	
1,2,4-Trimethylbenzene	12		"	10.0		116	82-132		0.688	30	
1,2-Dibromo-3-chloropropane	13		"	10.0		128	45-147		0.935	30	
1,2-Dibromoethane	11		"	10.0		108	83-124		2.21	30	
1,2-Dichlorobenzene	11		"	10.0		110	79-123		0.816	30	
1,2-Dichloroethane	11		"	10.0		111	73-132		0.540	30	
1,2-Dichloropropane	12		"	10.0		123	78-126		2.10	30	
1,3,5-Trimethylbenzene	12		"	10.0		116	80-131		0.172	30	
1,3-Dichlorobenzene	10		"	10.0		101	86-130		1.18	30	
1,4-Dichlorobenzene	11		"	10.0		108	85-130		1.01	30	
1,4-Dioxane	99		"	210		47.1	10-349		4.74	30	
2-Butanone	9.8		"	10.0		98.1	49-152		0.610	30	
2-Hexanone	10		"	10.0		103	51-146		2.21	30	
4-Methyl-2-pentanone	13		"	10.0		125	57-145		4.90	30	
Acetone	7.1		"	10.0		71.2	14-150		0.846	30	
Acrolein	9.9		"	10.0		99.4	10-153		1.42	30	
Acrylonitrile	11		"	10.0		111	51-150		1.27	30	
Benzene	11		"	10.0		111	85-126		1.07	30	
Bromochloromethane	11		"	10.0		112	77-128		1.24	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31853 - EPA 5030B											
LCS Dup (BK31853-BSD1)								Prepared & Analyzed: 11/29/2023			
Bromodichloromethane	11		ug/L	10.0		108	79-128		1.65	30	
Bromoform	10		"	10.0		100	78-133		4.48	30	
Bromomethane	9.2		"	10.0		91.5	43-168		3.75	30	
Carbon disulfide	13		"	10.0		127	68-146		5.40	30	
Carbon tetrachloride	11		"	10.0		106	77-141		0.378	30	
Chlorobenzene	11		"	10.0		110	88-120		0.543	30	
Chloroethane	10		"	10.0		103	65-136		3.25	30	
Chloroform	11		"	10.0		113	82-128		0.712	30	
Chloromethane	9.8		"	10.0		98.4	43-155		2.71	30	
cis-1,2-Dichloroethylene	12		"	10.0		118	83-129		0.592	30	
cis-1,3-Dichloropropylene	10		"	10.0		105	80-131		1.61	30	
Cyclohexane	12		"	10.0		125	63-149		0.562	30	
Dibromochloromethane	10		"	10.0		104	80-130		3.12	30	
Dibromomethane	11		"	10.0		107	72-134		1.11	30	
Dichlorodifluoromethane	11		"	10.0		109	44-144		0.0919	30	
Ethyl Benzene	10		"	10.0		100	80-131		2.17	30	
Hexachlorobutadiene	12		"	10.0		118	67-146		0.254	30	
Isopropylbenzene	12		"	10.0		120	76-140		1.17	30	
Methyl acetate	10		"	10.0		99.9	51-139		1.21	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		104	76-135		1.35	30	
Methylcyclohexane	11		"	10.0		112	72-143		0.179	30	
Methylene chloride	12		"	10.0		119	55-137		1.36	30	
n-Butylbenzene	9.6		"	10.0		96.2	79-132		4.46	30	
n-Propylbenzene	12		"	10.0		119	78-133		1.70	30	
o-Xylene	9.6		"	10.0		96.5	78-130		1.85	30	
p- & m- Xylenes	20		"	20.0		98.4	77-133		2.46	30	
p-Isopropyltoluene	10		"	10.0		102	81-136		1.77	30	
sec-Butylbenzene	12		"	10.0		120	79-137		1.17	30	
Styrene	9.5		"	10.0		94.6	67-132		2.40	30	
tert-Butyl alcohol (TBA)	57		"	50.0		114	25-162		0.368	30	
tert-Butylbenzene	11		"	10.0		113	77-138		0.177	30	
Tetrachloroethylene	8.6		"	10.0		86.3	82-131		1.38	30	
Toluene	11		"	10.0		114	80-127		1.57	30	
trans-1,2-Dichloroethylene	11		"	10.0		105	80-132		1.05	30	
trans-1,3-Dichloropropylene	10		"	10.0		102	78-131		4.30	30	
trans-1,4-dichloro-2-butene	12		"	10.0		116	63-141		0.772	30	
Trichloroethylene	11		"	10.0		110	82-128		1.80	30	
Trichlorofluoromethane	11		"	10.0		106	67-139		0.00	30	
Vinyl Chloride	10		"	10.0		102	58-145		1.37	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.91*		*"*	*10.0*		*99.1*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.1*		*"*	*10.0*		*101*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.6*		*"*	*10.0*		*106*	*79-122*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31716 - EPA 3510C											
Blank (BK31716-BLK2)								Prepared & Analyzed: 11/28/2023			
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Nitrobenzene	ND	0.250	"								
N-Nitrosodimethylamine	ND	0.500	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								
LCS (BK31716-BS2)								Prepared & Analyzed: 11/28/2023			
Acenaphthene	0.480	0.0500	ug/L	1.00		48.0	25-116				
Acenaphthylene	0.470	0.0500	"	1.00		47.0	26-116				
Anthracene	0.420	0.0500	"	1.00		42.0	25-123				
Benzo(a)anthracene	0.550	0.0500	"	1.00		55.0	33-125				
Benzo(a)pyrene	0.530	0.0500	"	1.00		53.0	32-132				
Benzo(b)fluoranthene	0.650	0.0500	"	1.00		65.0	22-137				
Benzo(g,h,i)perylene	0.800	0.0500	"	1.00		80.0	10-138				
Benzo(k)fluoranthene	0.710	0.0500	"	1.00		71.0	20-137				
Bis(2-ethylhexyl)phthalate	0.870	0.500	"	1.00		87.0	10-189				
Chrysene	0.660	0.0500	"	1.00		66.0	32-124				
Dibenzo(a,h)anthracene	0.920	0.0500	"	1.00		92.0	16-133				
Fluoranthene	0.560	0.0500	"	1.00		56.0	32-121				
Fluorene	0.540	0.0500	"	1.00		54.0	28-118				
Hexachlorobenzene	0.620	0.0200	"	1.00		62.0	23-124				
Hexachlorobutadiene	0.700	0.500	"	1.00		70.0	15-123				
Hexachloroethane	2.43	0.500	"	1.00		243	18-115	High Bias			
Indeno(1,2,3-cd)pyrene	0.860	0.0500	"	1.00		86.0	15-135				
Naphthalene	0.530	0.0500	"	1.00		53.0	18-120				
Nitrobenzene	0.660	0.250	"	1.00		66.0	21-121				
N-Nitrosodimethylamine	ND	0.500	"	1.00			10-124	Low Bias			
Phenanthrene	0.510	0.0500	"	1.00		51.0	24-127				
Pyrene	0.540	0.0500	"	1.00		54.0	31-132				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31716 - EPA 3510C											
Matrix Spike (BK31716-MS1)	*Source sample: 23K1299-02 (Matrix Spike)							Prepared: 11/28/2023 Analyzed: 11/29/2023			
1,1-Biphenyl	16.9	5.00	ug/L	25.0	ND	67.6	26-79				
1,2,4,5-Tetrachlorobenzene	19.6	5.00	"	25.0	ND	78.2	33-90				
1,2,4-Trichlorobenzene	19.9	5.00	"	25.0	ND	79.5	31-88				
1,2-Dichlorobenzene	15.3	5.00	"	25.0	ND	61.2	24-93				
1,2-Diphenylhydrazine (as Azobenzene)	15.5	5.00	"	25.0	ND	62.2	21-107				
1,3-Dichlorobenzene	14.6	5.00	"	25.0	ND	58.2	28-86				
1,4-Dichlorobenzene	14.8	5.00	"	25.0	ND	59.1	25-85				
2,3,4,6-Tetrachlorophenol	18.8	5.00	"	25.0	ND	75.4	30-130				
2,4,5-Trichlorophenol	21.5	5.00	"	25.0	ND	86.1	43-96				
2,4,6-Trichlorophenol	21.2	5.00	"	25.0	ND	84.8	46-94				
2,4-Dichlorophenol	20.7	5.00	"	25.0	ND	83.0	26-101				
2,4-Dimethylphenol	11.8	5.00	"	25.0	ND	47.3	10-104				
2,4-Dinitrophenol	40.1	5.00	"	25.0	ND	160	10-146	High Bias			
2,4-Dinitrotoluene	25.6	5.00	"	25.0	ND	102	30-108				
2,6-Dinitrotoluene	24.0	5.00	"	25.0	ND	96.2	38-98				
2-Chloronaphthalene	16.4	5.00	"	25.0	ND	65.6	30-89				
2-Chlorophenol	13.8	5.00	"	25.0	ND	55.2	24-98				
2-Methylnaphthalene	18.0	5.00	"	25.0	ND	72.0	10-112				
2-Methylphenol	12.4	5.00	"	25.0	ND	49.7	10-134				
2-Nitroaniline	20.6	5.00	"	25.0	ND	82.2	25-110				
2-Nitrophenol	23.4	5.00	"	25.0	ND	93.6	10-139				
3- & 4-Methylphenols	9.70	5.00	"	25.0	ND	38.8	10-91				
3,3-Dichlorobenzidine	ND	5.00	"	25.0	ND		10-140	Low Bias			
3-Nitroaniline	12.6	5.00	"	25.0	ND	50.5	22-111				
4,6-Dinitro-2-methylphenol	41.2	5.00	"	25.0	ND	165	10-140	High Bias			
4-Bromophenyl phenyl ether	23.5	5.00	"	25.0	ND	94.1	30-108				
4-Chloro-3-methylphenol	20.7	5.00	"	25.0	ND	82.8	11-109				
4-Chloroaniline	7.56	5.00	"	25.0	ND	30.2	10-116				
4-Chlorophenyl phenyl ether	20.6	5.00	"	25.0	ND	82.4	39-85				
4-Nitroaniline	16.1	5.00	"	25.0	ND	64.4	11-132				
4-Nitrophenol	10.4	5.00	"	25.0	ND	41.6	10-82				
Acetophenone	18.0	5.00	"	25.0	ND	72.0	14-102				
Aniline	3.46	5.00	"	25.0	ND	13.8	10-80				
Benzaldehyde	11.2	5.00	"	25.0	ND	44.8	13-87				
Benzoic acid	7.45	5.00	"	25.0	ND	29.8	10-162				
Benzyl alcohol	9.75	5.00	"	25.0	ND	39.0	10-102				
Benzyl butyl phthalate	14.0	5.00	"	25.0	ND	56.2	10-133				
Bis(2-chloroethoxy)methane	19.2	5.00	"	25.0	ND	76.6	18-105				
Bis(2-chloroethyl)ether	16.8	5.00	"	25.0	ND	67.2	10-108				
Bis(2-chloroisopropyl)ether	15.3	5.00	"	25.0	ND	61.3	13-116				
Caprolactam	2.82	5.00	"	25.0	ND	11.3	10-75				
Carbazole	17.9	5.00	"	25.0	ND	71.4	36-108				
Dibenzofuran	17.6	5.00	"	25.0	ND	70.3	34-92				
Diethyl phthalate	16.8	5.00	"	25.0	ND	67.4	33-98				
Dimethyl phthalate	17.8	5.00	"	25.0	ND	71.0	18-116				
Di-n-butyl phthalate	16.1	5.00	"	25.0	ND	64.5	25-97				
Di-n-octyl phthalate	14.9	5.00	"	25.0	ND	59.7	10-137				
Hexachlorocyclopentadiene	5.69	10.0	"	25.0	ND	22.8	10-79				
Isophorone	20.4	5.00	"	25.0	ND	81.6	25-103				
N-nitroso-di-n-propylamine	18.2	5.00	"	25.0	ND	72.7	19-115				
N-Nitrosodiphenylamine	19.3	5.00	"	25.0	ND	77.0	31-112				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31716 - EPA 3510C											
Matrix Spike (BK31716-MS1)	*Source sample: 23K1299-02 (Matrix Spike)							Prepared: 11/28/2023 Analyzed: 11/29/2023			
Phenol	5.69	5.00	ug/L	25.0	ND	22.8	10-61				
Surrogate: SURR: 2-Fluorophenol	*14.6*		"	*50.0*		*29.2*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*8.98*		"	*50.0*		*18.0*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*20.7*		"	*25.0*		*82.9*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*17.8*		"	*25.0*		*71.2*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*68.8*		"	*50.0*		*138*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*19.5*		"	*25.0*		*77.9*	*30.7-106*				
Batch BK31717 - EPA 3510C											
Blank (BK31717-BLK1)								Prepared: 11/28/2023 Analyzed: 12/01/2023			
1,1-Biphenyl	ND	5.00	ug/L								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
3,3-Dichlorobenzidine	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	5.00	"								
Benzoic acid	ND	5.00	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31717 - EPA 3510C											
Blank (BK31717-BLK1)											Prepared: 11/28/2023 Analyzed: 12/01/2023
Bis(2-chloroisopropyl)ether	ND	5.00	ug/L								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
Dibenzofuran	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Hexachlorocyclopentadiene	ND	10.0	"								
Isophorone	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Phenol	ND	5.00	"								
Resorcinol	ND	5.00	"								
Surrogate: SURR: 2-Fluorophenol	*22.5*		*"*	*50.0*		*45.0*	*19.7-63.1*				
Surrogate: SURR: Phenol-d6	*12.6*		*"*	*50.0*		*25.1*	*10.1-41.7*				
Surrogate: SURR: Nitrobenzene-d5	*23.9*		*"*	*25.0*		*95.8*	*50.2-113*				
Surrogate: SURR: 2-Fluorobiphenyl	*25.8*		*"*	*25.0*		*103*	*39.9-105*				
Surrogate: SURR: 2,4,6-Tribromophenol	*70.0*		*"*	*50.0*		*140*	*39.3-151*				
Surrogate: SURR: Terphenyl-d14	*28.7*		*"*	*25.0*		*115*	*30.7-106*				

Semivolatile Organic Compounds by GC/MS/SIM - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31624 - EPA 3535A											
Blank (BK31624-BLK1)								Prepared & Analyzed: 11/27/2023			
1,4-Dioxane	ND	0.300	ug/L								
Surrogate: 1,4-Dioxane-d8	*3.27*		"	*4.00*		*81.8*	*36.6-118*				
LCS (BK31624-BS1)								Prepared & Analyzed: 11/27/2023			
1,4-Dioxane	4.16	0.300	ug/L	4.00		104	50-130				
Surrogate: 1,4-Dioxane-d8	*3.24*		"	*4.00*		*81.1*	*36.6-118*				
Matrix Spike (BK31624-MS1)	*Source sample: 23K1409-01 (Matrix Spike)							Prepared & Analyzed: 11/27/2023			
1,4-Dioxane	4.54	0.300	ug/L	4.00	0.368	104	50-130				
Surrogate: 1,4-Dioxane-d8	*3.10*		"	*4.00*		*77.4*	*50-130*				
Matrix Spike Dup (BK31624-MSD1)	*Source sample: 23K1409-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/27/2023			
1,4-Dioxane	4.43	0.300	ug/L	4.00	0.368	102	50-130		2.50	30	
Surrogate: 1,4-Dioxane-d8	*3.10*		"	*4.00*		*77.6*	*50-130*				

Semivolatile Organic Compounds by GC/MS TIC - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31717 - EPA 3510C											
Blank (BK31717-BLK1)											Prepared: 11/28/2023 Analyzed: 12/01/2023
Benzophenone RT 8.4	16.4		ug/L								

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31625 - EPA SW846-3510C Low Level											
Blank (BK31625-BLK1)									Prepared: 11/27/2023 Analyzed: 11/28/2023		
4,4'-DDD	ND	0.00400	ug/L								
4,4'-DDE	ND	0.00400	"								
4,4'-DDT	ND	0.00400	"								
Aldrin	ND	0.00400	"								
alpha-BHC	ND	0.00400	"								
alpha-Chlordane	ND	0.00400	"								
beta-BHC	ND	0.00400	"								
Chlordane, total	ND	0.0200	"								
delta-BHC	ND	0.00400	"								
Dieldrin	ND	0.00200	"								
Endosulfan I	ND	0.00400	"								
Endosulfan II	ND	0.00400	"								
Endosulfan sulfate	ND	0.00400	"								
Endrin	ND	0.00400	"								
Endrin aldehyde	ND	0.0100	"								
Endrin ketone	ND	0.0100	"								
gamma-BHC (Lindane)	ND	0.00400	"								
gamma-Chlordane	ND	0.0100	"								
Heptachlor	ND	0.00400	"								
Heptachlor epoxide	ND	0.00400	"								
Methoxychlor	ND	0.00400	"								
Toxaphene	ND	0.100	"								
Surrogate: Decachlorobiphenyl	*0.132*		*"*	*0.200*		*66.0*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0971*		*"*	*0.200*		*48.5*	*30-150*				
LCS (BK31625-BS1)									Prepared: 11/27/2023 Analyzed: 11/28/2023		
4,4'-DDD	0.0738	0.00400	ug/L	0.100		73.8	40-140				
4,4'-DDE	0.0721	0.00400	"	0.100		72.1	40-140				
4,4'-DDT	0.0770	0.00400	"	0.100		77.0	40-140				
Aldrin	0.0585	0.00400	"	0.100		58.5	40-140				
alpha-BHC	0.0669	0.00400	"	0.100		66.9	40-140				
alpha-Chlordane	0.0677	0.00400	"	0.100		67.7	40-140				
beta-BHC	0.0730	0.00400	"	0.100		73.0	40-140				
delta-BHC	0.0629	0.00400	"	0.100		62.9	40-140				
Dieldrin	0.0719	0.00200	"	0.100		71.9	40-140				
Endosulfan I	0.0720	0.00400	"	0.100		72.0	40-140				
Endosulfan II	0.0779	0.00400	"	0.100		77.9	40-140				
Endosulfan sulfate	0.0745	0.00400	"	0.100		74.5	40-140				
Endrin	0.0745	0.00400	"	0.100		74.5	40-140				
Endrin aldehyde	0.0716	0.0100	"	0.100		71.6	40-140				
Endrin ketone	0.0749	0.0100	"	0.100		74.9	40-140				
gamma-BHC (Lindane)	0.0705	0.00400	"	0.100		70.5	40-140				
gamma-Chlordane	0.0694	0.0100	"	0.100		69.4	40-140				
Heptachlor	0.0646	0.00400	"	0.100		64.6	40-140				
Heptachlor epoxide	0.0708	0.00400	"	0.100		70.8	40-140				
Methoxychlor	0.0822	0.00400	"	0.100		82.2	40-140				
Surrogate: Decachlorobiphenyl	*0.133*		*"*	*0.200*		*66.6*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.101*		*"*	*0.200*		*50.5*	*30-150*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31625 - EPA SW846-3510C Low Level											
LCS Dup (BK31625-BSD1)									Prepared: 11/27/2023 Analyzed: 11/28/2023		
4,4'-DDD	0.0708	0.00400	ug/L	0.100		70.8	40-140		4.16	20	
4,4'-DDE	0.0686	0.00400	"	0.100		68.6	40-140		4.98	20	
4,4'-DDT	0.0758	0.00400	"	0.100		75.8	40-140		1.59	20	
Aldrin	0.0527	0.00400	"	0.100		52.7	40-140		10.4	20	
alpha-BHC	0.0645	0.00400	"	0.100		64.5	40-140		3.58	20	
alpha-Chlordane	0.0631	0.00400	"	0.100		63.1	40-140		6.99	20	
beta-BHC	0.0802	0.00400	"	0.100		80.2	40-140		9.33	20	
delta-BHC	0.0643	0.00400	"	0.100		64.3	40-140		2.15	20	
Dieldrin	0.0674	0.00200	"	0.100		67.4	40-140		6.50	20	
Endosulfan I	0.0684	0.00400	"	0.100		68.4	40-140		5.07	20	
Endosulfan II	0.0757	0.00400	"	0.100		75.7	40-140		2.96	20	
Endosulfan sulfate	0.0710	0.00400	"	0.100		71.0	40-140		4.84	20	
Endrin	0.0715	0.00400	"	0.100		71.5	40-140		4.08	20	
Endrin aldehyde	0.0736	0.0100	"	0.100		73.6	40-140		2.76	20	
Endrin ketone	0.0723	0.0100	"	0.100		72.3	40-140		3.61	20	
gamma-BHC (Lindane)	0.0685	0.00400	"	0.100		68.5	40-140		2.89	20	
gamma-Chlordane	0.0640	0.0100	"	0.100		64.0	40-140		8.05	20	
Heptachlor	0.0605	0.00400	"	0.100		60.5	40-140		6.60	20	
Heptachlor epoxide	0.0674	0.00400	"	0.100		67.4	40-140		4.79	20	
Methoxychlor	0.0805	0.00400	"	0.100		80.5	40-140		2.02	20	
Surrogate: Decachlorobiphenyl	*0.136*		*"*	*0.200*		*67.8*	*30-150*				
Surrogate: Tetrachloro-m-xylene	*0.0930*		*"*	*0.200*		*46.5*	*30-150*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31625 - EPA SW846-3510C Low Level											
Blank (BK31625-BLK2)									Prepared: 11/27/2023 Analyzed: 11/28/2023		
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.0810*		*"*	*0.200*		*40.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.119*		*"*	*0.200*		*59.5*	*30-120*				
LCS (BK31625-BS2)									Prepared: 11/27/2023 Analyzed: 11/28/2023		
Aroclor 1016	0.553	0.0500	ug/L	1.00		55.3	40-120				
Aroclor 1260	0.611	0.0500	"	1.00		61.1	40-120				
Surrogate: Tetrachloro-m-xylene	*0.0710*		*"*	*0.200*		*35.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.115*		*"*	*0.200*		*57.5*	*30-120*				
LCS Dup (BK31625-BSD2)									Prepared: 11/27/2023 Analyzed: 11/28/2023		
Aroclor 1016	0.569	0.0500	ug/L	1.00		56.9	40-120		2.92	30	
Aroclor 1260	0.650	0.0500	"	1.00		65.0	40-120		6.19	30	
Surrogate: Tetrachloro-m-xylene	*0.0790*		*"*	*0.200*		*39.5*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.104*		*"*	*0.200*		*52.0*	*30-120*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31836 - EPA 3015A											
Blank (BK31836-BLK1)											Prepared: 11/29/2023 Analyzed: 12/01/2023
Aluminum	ND	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	0.00803	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BK31836-BS1)											Prepared: 11/29/2023 Analyzed: 12/01/2023
Aluminum	1.86		ug/mL	2.00		93.1	80-120				
Barium	1.97		"	2.00		98.7	80-120				
Calcium	1.08		"	1.00		108	80-120				
Chromium	0.196		"	0.200		97.9	80-120				
Cobalt	0.482		"	0.500		96.5	80-120				
Copper	0.258		"	0.250		103	80-120				
Iron	0.968		"	1.00		96.8	80-120				
Lead	0.493		"	0.500		98.5	80-120				
Magnesium	0.940		"	1.00		94.0	80-120				
Manganese	0.495		"	0.500		99.0	80-120				
Nickel	0.492		"	0.500		98.5	80-120				
Potassium	0.944		"	1.00		94.4	80-120				
Silver	0.0468		"	0.0500		93.6	80-120				
Sodium	1.62		"	1.00		162	80-120	High Bias			
Vanadium	0.474		"	0.500		94.8	80-120				
Zinc	0.493		"	0.500		98.6	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31836 - EPA 3015A											
Duplicate (BK31836-DUP1)	*Source sample: 23K1442-02 (23MW5)								Prepared: 11/29/2023 Analyzed: 12/01/2023		
Aluminum	0.113	0.0556	mg/L		0.127				12.0	20	
Barium	0.209	0.0278	"		0.209				0.0898	20	
Calcium	124	0.0556	"		116				6.45	20	
Chromium	ND	0.00556	"		ND					20	
Cobalt	ND	0.00444	"		ND					20	
Copper	ND	0.0222	"		ND					20	
Iron	10.9	0.278	"		10.2				6.48	20	
Lead	0.0199	0.00556	"		0.0194				2.57	20	
Magnesium	43.6	0.0556	"		40.9				6.42	20	
Manganese	0.794	0.00556	"		0.792				0.213	20	
Nickel	ND	0.0111	"		ND					20	
Potassium	36.7	0.0556	"		34.6				5.95	20	
Silver	ND	0.00556	"		ND					20	
Sodium	188	0.556	"		188				0.0524	20	
Vanadium	ND	0.0111	"		ND					20	
Zinc	ND	0.0278	"		ND					20	
Matrix Spike (BK31836-MS1)	*Source sample: 23K1442-02 (23MW5)								Prepared: 11/29/2023 Analyzed: 12/01/2023		
Aluminum	2.27	0.0556	mg/L	2.22	0.127	96.3	75-125				
Barium	2.43	0.0278	"	2.22	0.209	100	75-125				
Calcium	124	0.0556	"	1.11	116	655	75-125	High Bias			
Chromium	0.223	0.00556	"	0.222	ND	100	75-125				
Cobalt	0.533	0.00444	"	0.556	ND	95.9	75-125				
Copper	0.294	0.0222	"	0.278	ND	106	75-125				
Iron	11.8	0.278	"	1.11	10.2	145	75-125	High Bias			
Lead	0.547	0.00556	"	0.556	0.0194	94.9	75-125				
Magnesium	44.1	0.0556	"	1.11	40.9	288	75-125	High Bias			
Manganese	1.34	0.00556	"	0.556	0.792	98.0	75-125				
Nickel	0.534	0.0111	"	0.556	ND	96.2	75-125				
Potassium	37.2	0.0556	"	1.11	34.6	231	75-125	High Bias			
Silver	0.0551	0.00556	"	0.0556	ND	99.2	75-125				
Sodium	189	0.556	"	1.11	188	99.7	75-125				
Vanadium	0.549	0.0111	"	0.556	ND	98.8	75-125				
Zinc	0.564	0.0278	"	0.556	ND	102	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31836 - EPA 3015A											
Post Spike (BK31836-PS1)	*Source sample: 23K1442-02 (23MW5)							Prepared: 11/29/2023 Analyzed: 12/01/2023			
Aluminum	2.09		ug/mL	2.00	0.115	98.9	75-125				
Barium	2.24		"	2.00	0.188	103	75-125				
Calcium	112		"	1.00	105	733	75-125	High Bias			
Chromium	0.205		"	0.200	0.00474	100	75-125				
Cobalt	0.490		"	0.500	-0.00268	98.0	75-125				
Copper	0.270		"	0.250	0.000782	108	75-125				
Iron	10.8		"	1.00	9.18	160	75-125	High Bias			
Lead	0.491		"	0.500	0.0175	94.7	75-125				
Magnesium	40.2		"	1.00	36.8	336	75-125	High Bias			
Manganese	1.22		"	0.500	0.713	101	75-125				
Nickel	0.492		"	0.500	-0.0000216	98.4	75-125				
Potassium	33.8		"	1.00	31.2	261	75-125	High Bias			
Silver	0.0538		"	0.0500	0.00133	105	75-125				
Sodium	172		"	1.00	170	201	75-125	High Bias			
Vanadium	0.505		"	0.500	0.00141	101	75-125				
Zinc	0.517		"	0.500	0.0125	101	75-125				
Batch BK31934 - EPA 3015A											
Blank (BK31934-BLK1)								Prepared: 11/30/2023 Analyzed: 12/01/2023			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	0.00706	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31934 - EPA 3015A											
LCS (BK31934-BS1)								Prepared: 11/30/2023 Analyzed: 12/01/2023			
Aluminum - Dissolved	1.91		ug/mL	2.00		95.4	80-120				
Barium - Dissolved	2.01		"	2.00		100	80-120				
Calcium - Dissolved	1.20		"	1.00		120	80-120				
Chromium - Dissolved	0.198		"	0.200		99.1	80-120				
Cobalt - Dissolved	0.492		"	0.500		98.4	80-120				
Copper - Dissolved	0.262		"	0.250		105	80-120				
Iron - Dissolved	0.993		"	1.00		99.3	80-120				
Lead - Dissolved	0.502		"	0.500		100	80-120				
Magnesium - Dissolved	0.966		"	1.00		96.6	80-120				
Manganese - Dissolved	0.504		"	0.500		101	80-120				
Nickel - Dissolved	0.503		"	0.500		101	80-120				
Potassium - Dissolved	0.961		"	1.00		96.1	80-120				
Silver - Dissolved	0.0472		"	0.0500		94.4	80-120				
Sodium - Dissolved	1.72		"	1.00		172	80-120	High Bias			
Vanadium - Dissolved	0.481		"	0.500		96.2	80-120				
Zinc - Dissolved	0.501		"	0.500		100	80-120				
Duplicate (BK31934-DUP1)	*Source sample: 23K1442-04 (23MW7)							Prepared: 11/30/2023 Analyzed: 12/01/2023			
Aluminum - Dissolved	0.0615	0.0556	mg/L		0.0958				43.7	20	Non-dir.
Barium - Dissolved	0.0809	0.0278	"		0.0828				2.39	20	
Calcium - Dissolved	165	0.0556	"		166				0.828	20	
Chromium - Dissolved	ND	0.00556	"		ND					20	
Cobalt - Dissolved	ND	0.00444	"		ND					20	
Copper - Dissolved	ND	0.0222	"		ND					20	
Iron - Dissolved	ND	0.278	"		ND					20	
Lead - Dissolved	ND	0.00556	"		ND					20	
Magnesium - Dissolved	24.6	0.0556	"		25.0				1.27	20	
Manganese - Dissolved	0.612	0.00556	"		0.622				1.63	20	
Nickel - Dissolved	ND	0.0111	"		ND					20	
Potassium - Dissolved	18.3	0.0556	"		18.4				0.406	20	
Silver - Dissolved	ND	0.00556	"		ND					20	
Sodium - Dissolved	40.5	0.556	"		41.2				1.58	20	
Vanadium - Dissolved	ND	0.0111	"		ND					20	
Zinc - Dissolved	ND	0.0278	"		ND					20	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31934 - EPA 3015A											
Matrix Spike (BK31934-MS1)	*Source sample: 23K1442-04 (23MW7)							Prepared: 11/30/2023 Analyzed: 12/01/2023			
Aluminum - Dissolved	2.23	0.0556	mg/L	2.22	0.0958	96.0	75-125				
Barium - Dissolved	2.31	0.0278	"	2.22	0.0828	100	75-125				
Calcium - Dissolved	165	0.0556	"	1.11	166	NR	75-125	Low Bias			
Chromium - Dissolved	0.220	0.00556	"	0.222	ND	99.1	75-125				
Cobalt - Dissolved	0.534	0.00444	"	0.556	ND	96.1	75-125				
Copper - Dissolved	0.290	0.0222	"	0.278	ND	105	75-125				
Iron - Dissolved	1.14	0.278	"	1.11	ND	103	75-125				
Lead - Dissolved	0.535	0.00556	"	0.556	ND	96.4	75-125				
Magnesium - Dissolved	25.7	0.0556	"	1.11	25.0	66.3	75-125	Low Bias			
Manganese - Dissolved	1.16	0.00556	"	0.556	0.622	96.6	75-125				
Nickel - Dissolved	0.535	0.0111	"	0.556	ND	96.3	75-125				
Potassium - Dissolved	19.4	0.0556	"	1.11	18.4	88.3	75-125				
Silver - Dissolved	0.0542	0.00556	"	0.0556	ND	97.6	75-125				
Sodium - Dissolved	42.1	0.556	"	1.11	41.2	80.7	75-125				
Vanadium - Dissolved	0.543	0.0111	"	0.556	ND	97.8	75-125				
Zinc - Dissolved	0.551	0.0278	"	0.556	ND	99.1	75-125				
Post Spike (BK31934-PS1)	*Source sample: 23K1442-04 (23MW7)							Prepared: 11/30/2023 Analyzed: 12/01/2023			
Aluminum - Dissolved	2.10		ug/mL	2.00	0.0863	101	75-125				
Barium - Dissolved	2.16		"	2.00	0.0746	104	75-125				
Calcium - Dissolved	149		"	1.00	150	NR	75-125	Low Bias			
Chromium - Dissolved	0.206		"	0.200	0.00368	101	75-125				
Cobalt - Dissolved	0.500		"	0.500	-0.000691	100	75-125				
Copper - Dissolved	0.273		"	0.250	0.00111	109	75-125				
Iron - Dissolved	1.05		"	1.00	0.0486	100	75-125				
Lead - Dissolved	0.494		"	0.500	0.00185	98.5	75-125				
Magnesium - Dissolved	23.2		"	1.00	22.5	75.4	75-125				
Manganese - Dissolved	1.07		"	0.500	0.560	102	75-125				
Nickel - Dissolved	0.501		"	0.500	-0.000141	100	75-125				
Potassium - Dissolved	17.7		"	1.00	16.5	111	75-125				
Silver - Dissolved	0.0539		"	0.0500	0.00201	104	75-125				
Sodium - Dissolved	38.4		"	1.00	37.0	134	75-125	High Bias			
Vanadium - Dissolved	0.508		"	0.500	0.000143	102	75-125				
Zinc - Dissolved	0.519		"	0.500	0.00922	102	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31728 - EPA 3015A											
Blank (BK31728-BLK1)								Prepared & Analyzed: 11/28/2023			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	1.18	1.11	"								
Thallium	ND	1.11	"								
LCS (BK31728-BS1)								Prepared & Analyzed: 11/28/2023			
Antimony	44.3		ug/L	50.0		88.6	80-120				
Arsenic	47.8		"	50.0		95.6	80-120				
Beryllium	45.1		"	50.0		90.2	80-120				
Cadmium	47.5		"	50.0		94.9	80-120				
Selenium	46.8		"	50.0		93.5	80-120				
Thallium	57.2		"	50.0		114	80-120				
Duplicate (BK31728-DUP1)	*Source sample: 23K1299-02 (Duplicate)							Prepared & Analyzed: 11/28/2023			
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	5.05	1.11	"		4.91				2.83	20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	3.38	1.11	"		4.26				23.0	20	Non-dir.
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BK31728-MS1)	*Source sample: 23K1299-02 (Matrix Spike)							Prepared & Analyzed: 11/28/2023			
Antimony	44.8		ug/L	50.0	-0.171	89.7	75-125				
Arsenic	57.6		"	50.0	4.42	106	75-125				
Beryllium	34.6		"	50.0	0.001	69.2	75-125	Low Bias			
Cadmium	46.3		"	50.0	0.002	92.6	75-125				
Selenium	52.3		"	50.0	3.84	97.0	75-125				
Thallium	54.2		"	50.0	-0.011	108	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31933 - EPA 3015A											
Blank (BK31933-BLK1)									Prepared: 11/30/2023 Analyzed: 12/01/2023		
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	ND	1.11	"								
Thallium	ND	1.11	"								
LCS (BK31933-BS1)									Prepared: 11/30/2023 Analyzed: 12/01/2023		
Antimony	50.1		ug/L	50.0		100	80-120				
Arsenic	49.4		"	50.0		98.9	80-120				
Beryllium	51.0		"	50.0		102	80-120				
Cadmium	49.0		"	50.0		98.0	80-120				
Selenium	51.0		"	50.0		102	80-120				
Thallium	52.4		"	50.0		105	80-120				
Duplicate (BK31933-DUP1)	*Source sample: 23K1442-04 (23MW7)								Prepared: 11/30/2023 Analyzed: 12/01/2023		
Antimony	ND	1.11	ug/L		ND					20	
Arsenic	18.6	1.11	"		18.3				1.73	20	
Beryllium	ND	0.333	"		ND					20	
Cadmium	ND	0.556	"		ND					20	
Selenium	ND	1.11	"		ND					20	
Thallium	ND	1.11	"		ND					20	
Matrix Spike (BK31933-MS1)	*Source sample: 23K1442-04 (23MW7)								Prepared: 11/30/2023 Analyzed: 12/01/2023		
Antimony	49.6		ug/L	50.0	0.026	99.1	75-125				
Arsenic	71.3		"	50.0	16.4	110	75-125				
Beryllium	39.2		"	50.0	0.019	78.4	75-125				
Cadmium	49.2		"	50.0	0.080	98.2	75-125				
Selenium	49.5		"	50.0	-0.207	98.9	75-125				
Thallium	52.8		"	50.0	-0.0005	106	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31935 - EPA 3015A											
Blank (BK31935-BLK1)									Prepared & Analyzed: 11/30/2023		
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BK31935-BS1)									Prepared & Analyzed: 11/30/2023		
Antimony - Dissolved	47.5		ug/L	50.0		95.1	80-120				
Arsenic - Dissolved	46.4		"	50.0		92.8	80-120				
Beryllium - Dissolved	54.4		"	50.0		109	80-120				
Cadmium - Dissolved	48.6		"	50.0		97.3	80-120				
Selenium - Dissolved	49.6		"	50.0		99.2	80-120				
Thallium - Dissolved	51.9		"	50.0		104	80-120				
Duplicate (BK31935-DUP1)	*Source sample: 23K1442-03 (23MW6)								Prepared & Analyzed: 11/30/2023		
Antimony - Dissolved	ND	1.11	ug/L		ND					20	
Arsenic - Dissolved	4.20	1.11	"		3.97				5.60	20	
Beryllium - Dissolved	ND	0.333	"		ND					20	
Cadmium - Dissolved	ND	0.556	"		ND					20	
Selenium - Dissolved	ND	1.11	"		ND					20	
Thallium - Dissolved	ND	1.11	"		ND					20	
Matrix Spike (BK31935-MS1)	*Source sample: 23K1442-03 (23MW6)								Prepared & Analyzed: 11/30/2023		
Antimony - Dissolved	48.1		ug/L	50.0	0.306	95.6	75-125				
Arsenic - Dissolved	56.2		"	50.0	3.57	105	75-125				
Beryllium - Dissolved	39.0		"	50.0	-0.005	78.0	75-125				
Cadmium - Dissolved	48.4		"	50.0	-0.002	96.7	75-125				
Selenium - Dissolved	53.6		"	50.0	-0.623	107	75-125				
Thallium - Dissolved	51.1		"	50.0	-0.032	102	75-125				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31750 - EPA SW846-7470A											
Blank (BK31750-BLK1)									Prepared & Analyzed: 11/28/2023		
Mercury	ND	0.0002	mg/L								
LCS (BK31750-BS1)									Prepared & Analyzed: 11/28/2023		
Mercury	0.0020663	0.0002	mg/L	0.00200		103	80-120				
Duplicate (BK31750-DUP1)	*Source sample: 23K1299-02 (Duplicate)								Prepared & Analyzed: 11/28/2023		
Mercury	ND	0.0002	mg/L		ND					20	
Matrix Spike (BK31750-MS1)	*Source sample: 23K1299-02 (Matrix Spike)								Prepared & Analyzed: 11/28/2023		
Mercury	0.0023	0.0002	mg/L	0.00200	ND	116	75-125				
Matrix Spike Dup (BK31750-MSD1)	*Source sample: 23K1299-02 (Matrix Spike Dup)								Prepared & Analyzed: 11/28/2023		
Mercury	0.0027	0.0002	mg/L	0.00200	ND	134	75-125	High Bias	14.4	200	
Batch BK31751 - EPA SW846-7470A											
Blank (BK31751-BLK1)									Prepared & Analyzed: 11/28/2023		
Mercury - Dissolved	ND	0.0002	mg/L								
Blank (BK31751-BLK2)									Prepared & Analyzed: 11/28/2023		
Mercury - Dissolved	ND	0.0002	mg/L								
LCS (BK31751-BS1)									Prepared & Analyzed: 11/28/2023		
Mercury - Dissolved	0.0021	0.0002	mg/L	0.00200		106	80-120				
LCS (BK31751-BS2)									Prepared & Analyzed: 11/28/2023		
Mercury - Dissolved	0.0018	0.0002	mg/L	0.00200		92.0	80-120				

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31443 - Analysis Preparation											
Blank (BK31443-BLK1)								Prepared & Analyzed: 11/21/2023			
Chromium, Hexavalent	ND	0.0100	mg/L								
LCS (BK31443-BS1)								Prepared & Analyzed: 11/21/2023			
Chromium, Hexavalent	0.576	0.0100	mg/L	0.500		115	85-115				
Duplicate (BK31443-DUP1)	*Source sample: 23K1461-01 (Duplicate)							Prepared & Analyzed: 11/21/2023			
Chromium, Hexavalent	ND	0.0100	mg/L		ND					20	
Matrix Spike (BK31443-MS1)	*Source sample: 23K1461-01 (Matrix Spike)							Prepared & Analyzed: 11/21/2023			
Chromium, Hexavalent	0.623	0.0100	mg/L	0.500	ND	125	85-115	High Bias			
Matrix Spike Dup (BK31443-MSD1)	*Source sample: 23K1461-01 (Matrix Spike Dup)							Prepared & Analyzed: 11/21/2023			
Chromium, Hexavalent	0.621	0.0100	mg/L	0.500	ND	124	85-115	High Bias	0.322	200	
Batch BK31685 - Analysis Preparation											
Blank (BK31685-BLK1)								Prepared & Analyzed: 11/27/2023			
Cyanide, total	ND	0.0100	mg/L								
LCS (BK31685-BS1)								Prepared & Analyzed: 11/27/2023			
Cyanide, total	0.163	0.0100	mg/L	0.200		81.5	80-120				
Duplicate (BK31685-DUP1)	*Source sample: 23K1442-04 (23MW7)							Prepared & Analyzed: 11/27/2023			
Cyanide, total	0.0480	0.0100	mg/L		0.0580				18.9	15	Non-dir.
Matrix Spike (BK31685-MS1)	*Source sample: 23K1442-04 (23MW7)							Prepared & Analyzed: 11/27/2023			
Cyanide, total	0.208	0.0100	mg/L	0.200	0.0580	75.0	79-105	Low Bias			

Wet Chemistry Parameters - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK31685 - Analysis Preparation											
Matrix Spike Dup (BK31685-MSD1)	*Source sample: 23K1442-04 (23MW7)							Prepared & Analyzed: 11/27/2023			
Cyanide, total	0.199	0.0100	mg/L	0.200	0.0580	70.5	79-105	Low Bias	4.42	200	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23K1442-01	23MW4	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1442-02	23MW5	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1442-03	23MW6	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1442-04	23MW7	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1442-05	Field Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23K1442-06	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-GC	Two surrogates are used for this analysis. One surrogate recovered within control limits therefore the analysis is acceptable.
S-08	The recovery of this surrogate was outside of QC limits.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
N	The Tentatively Identified Compound reported indicates the presence of an possible analyte or class of analyte that has been 'tentatively identified' and the associated numerical value represents its estimated concentration.
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) was outside the 90-110% recovery criteria.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K1442

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone:	Phone:	Phone:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th St. Bronx, NY

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) Firat Atamer

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ⋮ Other

Samples From
New York ✓
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report; CT RCP; Standard Excel EDD
QA Report; CT RCP DQA/DUE; EQuIS (Standard)
NY ASP A Package; NJDEP Reduced Deliverables; NYSDEC EQuIS
NY ASP B Package; NJDKQP; NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
23MW4	GW	11/21/23 9:50	TCL+10 VOCs and TICs, TCL+20 SVOCs and TICs, Pesticide/PCBs via EPA Method 8081/8082, 21PFAS compounds via EPA Method 8270 SIM, TAL Metals (filtered and unfiltered) + Cyanide and Hexavalent Chromium 1633, 1,4-dioxane via EPA Method 8270 SIM, TAL Metals (filtered and unfiltered) + Cyanide and Hexavalent Chromium	4 Ambers 4 plastic 3 vials ↓
23MW5	↓	10:45		
23MW6		11:50		
23MW7		12:50		
Trip Blank, Field Blank	O			5 vials.

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
14:28	11/21/23	1428 11/21/23	On ICE 14.2		11/21/23 1850
Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Roman Kunle	11/21/23 1850	Roman Kunle	11/21/23 20:50		
Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				11/21/23	20:50 / 1.7 Degrees C

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 12/08/2023
Client Project ID: 220293 100 E.149th St. Bronx, NY
York Project (SDG) No.: 23K1901

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/08/2023
Client Project ID: 220293 100 E.149th St. Bronx, NY
York Project (SDG) No.: 23K1901

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 30, 2023 and listed below. The project was identified as your project: **220293 100 E.149th St. Bronx, NY**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23K1901-01	23SV1	Soil Vapor	11/29/2023	11/30/2023
23K1901-02	23SV2	Soil Vapor	11/29/2023	11/30/2023
23K1901-03	23SV3	Soil Vapor	11/29/2023	11/30/2023
23K1901-04	23SV4	Soil Vapor	11/29/2023	11/30/2023
23K1901-05	23SV5	Soil Vapor	11/29/2023	11/30/2023
23K1901-06	23SV6	Soil Vapor	11/29/2023	11/30/2023
23K1901-07	OA-1	Outdoor Ambient Ai	11/29/2023	11/30/2023

General Notes for York Project (SDG) No.: 23K1901

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 12/08/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23SV1 **York Sample ID:** 23K1901-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:00 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.0	1.476	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 15:10	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.81	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.81	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.60	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
120-82-1	1,2,4-Trichlorobenzene	ND	ICVE, TO-LCS-L	ug/m³	1.1	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.73	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.89	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.60	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.68	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.0	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.73	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
106-99-0	1,3-Butadiene	ND	TO-CCV, TO-LCS-L	ug/m³	0.98	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.89	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.68	1.476	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 15:10	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.89	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
78-93-3	**2-Butanone**	**0.44**		ug/m³	0.44	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH

Sample Information

Client Sample ID: 23SV1 **York Sample ID:** 23K1901-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:00 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.476	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 15:10	VH
107-05-1	3-Chloropropene	ND		ug/m³	2.3	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.60	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
67-64-1	**Acetone**	**4.2**		ug/m³	0.70	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
107-13-1	**Acrylonitrile**	**0.67**	B	ug/m³	0.32	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
71-43-2	**Benzene**	**0.66**		ug/m³	0.47	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.76	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
75-27-4	Bromodichloromethane	ND		ug/m³	0.99	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
75-25-2	Bromoform	ND	TO-LCS-L	ug/m³	1.5	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
74-83-9	Bromomethane	ND		ug/m³	0.57	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.46	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
56-23-5	**Carbon tetrachloride**	**0.37**		ug/m³	0.23	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.68	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
75-00-3	Chloroethane	ND		ug/m³	0.39	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
67-66-3	Chloroform	ND		ug/m³	0.72	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
74-87-3	**Chloromethane**	**0.64**	TO-CCV, TO-LCS-L	ug/m³	0.30	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.67	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
110-82-7	Cyclohexane	ND		ug/m³	0.51	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
75-71-8	**Dichlorodifluoromethane**	**2.2**		ug/m³	0.73	1.476	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 15:10	VH
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.476	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 15:10	VH

Sample Information

Client Sample ID: 23SV1 **York Sample ID:** 23K1901-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:00 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m³	0.64	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
87-68-3	Hexachlorobutadiene	ND	TO-LCS-L	ug/m³	1.6	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
67-63-0	**Isopropanol**	**1.5**		ug/m³	0.73	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.60	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.53	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
75-09-2	Methylene chloride	ND		ug/m³	1.0	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
142-82-5	n-Heptane	ND		ug/m³	0.60	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
110-54-3	n-Hexane	ND		ug/m³	0.52	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
95-47-6	o-Xylene	ND		ug/m³	0.64	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
179601-23-1	**p- & m- Xylenes**	**1.4**		ug/m³	1.3	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.73	1.476	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 15:10	VH
115-07-1	* Propylene	ND		ug/m³	0.25	1.476	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 15:10	VH
100-42-5	Styrene	ND		ug/m³	0.63	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
127-18-4	Tetrachloroethylene	ND		ug/m³	1.0	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.87	1.476	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 15:10	VH
108-88-3	**Toluene**	**1.0**		ug/m³	0.56	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.59	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.67	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.20	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.2**		ug/m³	0.83	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.52	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.65	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH

Sample Information

Client Sample ID: 23SV1 **York Sample ID:** 23K1901-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:00 am	11/30/2023

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND	TO-CCV, TO-LCS-L	ug/m³	0.19	1.476	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 15:10	VH

Sample Information

Client Sample ID: 23SV2 **York Sample ID:** 23K1901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:20 am	11/30/2023

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.0	1.47	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:04	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.80	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.80	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.59	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
120-82-1	1,2,4-Trichlorobenzene	ND	ICVE, TO-LCS-L	ug/m³	1.1	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
95-63-6	**1,2,4-Trimethylbenzene**	**24**		ug/m³	0.72	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.88	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
107-06-2	**1,2-Dichloroethane**	**2.5**		ug/m³	0.59	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.68	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.0	1.47	EPA TO-15 Certifications:	12/05/2023 09:00 NELAC-NY12058,NJDEP-NY037	12/05/2023 16:04	VH

Sample Information

Client Sample ID: 23SV2 **York Sample ID:** 23K1901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:20 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-67-8	**1,3,5-Trimethylbenzene**	**6.6**		ug/m³	0.72	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
106-99-0	1,3-Butadiene	ND	TO-CCV, TO-LCS-L	ug/m³	0.98	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.88	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.68	1.47	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:04	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.88	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
78-93-3	**2-Butanone**	**0.95**		ug/m³	0.43	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.47	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:04	VH
107-05-1	3-Chloropropene	ND		ug/m³	2.3	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.60	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
67-64-1	**Acetone**	**55**		ug/m³	0.70	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.32	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
71-43-2	**Benzene**	**2.1**		ug/m³	0.47	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.76	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
75-27-4	Bromodichloromethane	ND		ug/m³	0.98	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
75-25-2	Bromoform	ND	TO-LCS-L	ug/m³	1.5	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
74-83-9	Bromomethane	ND		ug/m³	0.57	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
75-15-0	**Carbon disulfide**	**0.55**		ug/m³	0.46	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
56-23-5	Carbon tetrachloride	ND		ug/m³	0.23	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.68	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
75-00-3	Chloroethane	ND		ug/m³	0.39	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
67-66-3	Chloroform	ND		ug/m³	0.72	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH

Sample Information

Client Sample ID: 23SV2 **York Sample ID:** 23K1901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:20 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.30	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.67	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
110-82-7	**Cyclohexane**	**6.3**		ug/m³	0.51	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
75-71-8	**Dichlorodifluoromethane**	**2.0**		ug/m³	0.73	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.47	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:04	VH
100-41-4	**Ethyl Benzene**	**8.7**		ug/m³	0.64	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
87-68-3	Hexachlorobutadiene	ND	TO-LCS-L	ug/m³	1.6	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
67-63-0	**Isopropanol**	**1.3**		ug/m³	0.72	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.60	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.53	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
75-09-2	Methylene chloride	ND		ug/m³	1.0	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
142-82-5	**n-Heptane**	**5.3**		ug/m³	0.60	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
110-54-3	**n-Hexane**	**23**		ug/m³	0.52	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
95-47-6	**o-Xylene**	**18**		ug/m³	0.64	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
179601-23-1	**p- & m- Xylenes**	**39**		ug/m³	1.3	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
622-96-8	*** p-Ethyltoluene**	**19**		ug/m³	0.72	1.47	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:04	VH
115-07-1	* Propylene	ND		ug/m³	0.25	1.47	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:04	VH
100-42-5	Styrene	ND		ug/m³	0.63	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
127-18-4	**Tetrachloroethylene**	**1.0**		ug/m³	1.0	1.47	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:04	VH
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.87	1.47	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:04	VH

Sample Information

Client Sample ID: 23SV2 **York Sample ID:** 23K1901-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:20 am	11/30/2023

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-88-3	**Toluene**	**17**		ug/m³	0.55	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.58	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.67	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.20	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.2**		ug/m³	0.83	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.52	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.64	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-01-4	Vinyl Chloride	ND	TO-CCV, TO-LCS-L	ug/m³	0.19	1.47	EPA TO-15	12/05/2023 09:00	12/05/2023 16:04	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: 23SV3 **York Sample ID:** 23K1901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:30 am	11/30/2023

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.0	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.81	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.81	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.60	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: 23SV3 **York Sample ID:** 23K1901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:30 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND	ICVE, TO-LCS-L	ug/m³	1.1	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
95-63-6	**1,2,4-Trimethylbenzene**	**0.73**		ug/m³	0.73	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.89	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.60	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.68	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.0	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.73	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
106-99-0	1,3-Butadiene	ND	TO-CCV, TO-LCS-L	ug/m³	0.98	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.89	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.68	1.48	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:57	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.89	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
78-93-3	**2-Butanone**	**0.52**		ug/m³	0.44	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.48	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:57	VH
107-05-1	3-Chloropropene	ND		ug/m³	2.3	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.61	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
67-64-1	**Acetone**	**18**		ug/m³	0.70	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
107-13-1	**Acrylonitrile**	**0.67**	B	ug/m³	0.32	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
71-43-2	**Benzene**	**0.76**		ug/m³	0.47	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.77	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
75-27-4	Bromodichloromethane	ND		ug/m³	0.99	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH

Sample Information

Client Sample ID: 23SV3 **York Sample ID:** 23K1901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:30 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND	TO-LCS-L	ug/m³	1.5	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
74-83-9	Bromomethane	ND		ug/m³	0.57	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
75-15-0	Carbon disulfide	ND		ug/m³	0.46	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
56-23-5	**Carbon tetrachloride**	**0.47**		ug/m³	0.23	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.68	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
75-00-3	Chloroethane	ND		ug/m³	0.39	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
67-66-3	Chloroform	ND		ug/m³	0.72	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
74-87-3	**Chloromethane**	**0.64**	TO-CCV, TO-LCS-L	ug/m³	0.31	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.67	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
110-82-7	Cyclohexane	ND		ug/m³	0.51	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
75-71-8	**Dichlorodifluoromethane**	**2.4**		ug/m³	0.73	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.48	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 16:57	VH
100-41-4	Ethyl Benzene	ND		ug/m³	0.64	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
87-68-3	Hexachlorobutadiene	ND	TO-LCS-L	ug/m³	1.6	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
67-63-0	**Isopropanol**	**2.1**		ug/m³	0.73	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.61	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.53	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
75-09-2	Methylene chloride	ND		ug/m³	1.0	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
142-82-5	n-Heptane	ND		ug/m³	0.61	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH
110-54-3	**n-Hexane**	**0.52**		ug/m³	0.52	1.48	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 16:57	VH

Sample Information

Client Sample ID: 23SV3 **York Sample ID:** 23K1901-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:30 am	11/30/2023

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-47-6	**o-Xylene**	**0.84**		ug/m³	0.64	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	**p- & m- Xylenes**	**2.3**		ug/m³	1.3	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.73	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.25	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.63	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	1.0	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.87	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:			
108-88-3	**Toluene**	**1.5**		ug/m³	0.56	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.59	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.67	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.20	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.83	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.52	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.65	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-01-4	Vinyl Chloride	ND	TO-CCV, TO-LCS-L	ug/m³	0.19	1.48	EPA TO-15	12/05/2023 09:00	12/05/2023 16:57	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: 23SV4 **York Sample ID:** 23K1901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:50 am	11/30/2023

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:** TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: 23SV4 **York Sample ID:** 23K1901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:50 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.0	1.45	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 17:50	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.79	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.0	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.1	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.79	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.59	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.14	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
120-82-1	1,2,4-Trichlorobenzene	ND	ICVE, TO-LCS -L	ug/m³	1.1	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
95-63-6	**1,2,4-Trimethylbenzene**	**6.2**		ug/m³	0.71	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.1	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.87	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.59	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.67	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.0	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
108-67-8	**1,3,5-Trimethylbenzene**	**1.7**		ug/m³	0.71	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
106-99-0	1,3-Butadiene	ND	TO-CCV, TO-LCS -L	ug/m³	0.96	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.87	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.67	1.45	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 17:50	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.87	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.0	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
78-93-3	**2-Butanone**	**0.51**		ug/m³	0.43	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
591-78-6	* 2-Hexanone	ND		ug/m³	1.2	1.45	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 17:50	VH

Sample Information

Client Sample ID: 23SV4 **York Sample ID:** 23K1901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:50 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	2.3	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.59	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**56**		ug/m³	0.69	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	**Acrylonitrile**	**0.63**	B	ug/m³	0.31	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	**Benzene**	**0.51**		ug/m³	0.46	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.75	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.97	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND	TO-LCS-L	ug/m³	1.5	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.56	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.45	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	**Carbon tetrachloride**	**0.36**		ug/m³	0.23	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.67	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.38	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	**Chloroform**	**2.8**		ug/m³	0.71	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**0.54**	TO-CCV, TO-LCS-L	ug/m³	0.30	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.14	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.66	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.50	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	1.2	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	**Dichlorodifluoromethane**	**2.3**		ug/m³	0.72	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	1.0	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**3.5**		ug/m³	0.63	1.45	EPA TO-15	12/05/2023 09:00	12/05/2023 17:50	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: 23SV4 **York Sample ID:** 23K1901-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:50 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND	TO-LCS -L	ug/m³	1.5	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
67-63-0	**Isopropanol**	**4.1**		ug/m³	0.71	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	0.59	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.52	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
75-09-2	Methylene chloride	ND		ug/m³	1.0	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
142-82-5	**n-Heptane**	**0.71**		ug/m³	0.59	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
110-54-3	n-Hexane	ND		ug/m³	0.51	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
95-47-6	**o-Xylene**	**8.2**		ug/m³	0.63	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
179601-23-1	**p- & m- Xylenes**	**16**		ug/m³	1.3	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
622-96-8	*** p-Ethyltoluene**	**5.8**		ug/m³	0.71	1.45	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 17:50	VH
115-07-1	* Propylene	ND		ug/m³	0.25	1.45	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 17:50	VH
100-42-5	Styrene	ND		ug/m³	0.62	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
127-18-4	**Tetrachloroethylene**	**1.8**		ug/m³	0.98	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.86	1.45	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 17:50	VH
108-88-3	**Toluene**	**3.6**		ug/m³	0.55	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.57	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.66	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.19	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.4**		ug/m³	0.81	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.51	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.63	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH
75-01-4	Vinyl Chloride	ND	TO-CCV, TO-LCS -L	ug/m³	0.19	1.45	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 17:50	VH

Sample Information

Client Sample ID: **23SV4** **York Sample ID:** **23K1901-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 9:50 am	11/30/2023

Sample Information

Client Sample ID: **23SV5** **York Sample ID:** **23K1901-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:45 am	11/30/2023

Volatile Organics, EPA TO15 Full List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	1.1	1.531	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 18:44	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.84	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	1.1	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	1.2	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.84	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.62	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.15	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
120-82-1	1,2,4-Trichlorobenzene	ND	ICVE, TO-LCS-L	ug/m³	1.1	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
95-63-6	**1,2,4-Trimethylbenzene**	**9.3**		ug/m³	0.75	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	1.2	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.92	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.62	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.71	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	1.1	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
108-67-8	**1,3,5-Trimethylbenzene**	**3.2**		ug/m³	0.75	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
106-99-0	1,3-Butadiene	ND	TO-CCV, TO-LCS-L	ug/m³	1.0	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.92	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH

Sample Information

Client Sample ID: 23SV5 **York Sample ID:** 23K1901-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:45 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.71	1.531	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 18:44	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.92	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
123-91-1	1,4-Dioxane	ND		ug/m³	1.1	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
78-93-3	**2-Butanone**	**32**		ug/m³	0.45	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
591-78-6	*** 2-Hexanone**	**4.5**		ug/m³	1.3	1.531	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 18:44	VH
107-05-1	3-Chloropropene	ND		ug/m³	2.4	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.63	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
67-64-1	**Acetone**	**31**		ug/m³	0.73	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
107-13-1	**Acrylonitrile**	**1.0**	B	ug/m³	0.33	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
71-43-2	**Benzene**	**6.0**		ug/m³	0.49	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
100-44-7	Benzyl chloride	ND		ug/m³	0.79	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
75-27-4	Bromodichloromethane	ND		ug/m³	1.0	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
75-25-2	Bromoform	ND	TO-LCS-L	ug/m³	1.6	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
74-83-9	Bromomethane	ND		ug/m³	0.59	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
75-15-0	**Carbon disulfide**	**4.0**		ug/m³	0.48	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
56-23-5	Carbon tetrachloride	ND		ug/m³	0.24	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
108-90-7	Chlorobenzene	ND		ug/m³	0.70	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
75-00-3	Chloroethane	ND		ug/m³	0.40	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
67-66-3	Chloroform	ND		ug/m³	0.75	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
74-87-3	Chloromethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.32	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.15	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.69	1.531	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 18:44	VH

Sample Information

Client Sample ID: 23SV5 **York Sample ID:** 23K1901-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:45 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	**Cyclohexane**	**4.5**		ug/m³	0.53	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
124-48-1	Dibromochloromethane	ND		ug/m³	1.3	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-71-8	**Dichlorodifluoromethane**	**2.2**		ug/m³	0.76	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
141-78-6	* Ethyl acetate	ND		ug/m³	1.1	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**7.8**		ug/m³	0.66	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
87-68-3	Hexachlorobutadiene	ND	TO-LCS -L	ug/m³	1.6	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
67-63-0	**Isopropanol**	**1.0**		ug/m³	0.75	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.63	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.55	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-09-2	Methylene chloride	ND		ug/m³	1.1	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
142-82-5	**n-Heptane**	**14**		ug/m³	0.63	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
110-54-3	**n-Hexane**	**26**		ug/m³	0.54	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
95-47-6	**o-Xylene**	**15**		ug/m³	0.66	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
179601-23-1	**p- & m- Xylenes**	**30**		ug/m³	1.3	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
622-96-8	*** p-Ethyltoluene**	**11**		ug/m³	0.75	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications:			
115-07-1	*** Propylene**	**3.4**		ug/m³	0.26	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.65	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
127-18-4	**Tetrachloroethylene**	**2.0**		ug/m³	1.0	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.90	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications:			
108-88-3	**Toluene**	**18**		ug/m³	0.58	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.61	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.69	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: 23SV5 **York Sample ID:** 23K1901-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 8:45 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	**Trichloroethylene**	**0.49**		ug/m³	0.21	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.3**		ug/m³	0.86	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
108-05-4	Vinyl acetate	ND		ug/m³	0.54	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
593-60-2	Vinyl bromide	ND		ug/m³	0.67	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-01-4	Vinyl Chloride	ND	TO-CCV, TO-LCS-L	ug/m³	0.20	1.531	EPA TO-15	12/05/2023 09:00	12/05/2023 18:44	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: 23SV6 **York Sample ID:** 23K1901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 10:15 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	2.0	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	1.6	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	2.0	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	2.3	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	1.6	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-34-3	1,1-Dichloroethane	ND		ug/m³	1.2	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.29	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
120-82-1	1,2,4-Trichlorobenzene	ND	ICVE, TO-LCS-L	ug/m³	2.2	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
95-63-6	**1,2,4-Trimethylbenzene**	**51**		ug/m³	1.5	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
106-93-4	1,2-Dibromoethane	ND		ug/m³	2.3	2.966	EPA TO-15	12/05/2023 09:00	12/05/2023 19:33	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: 23SV6 **York Sample ID:** 23K1901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 10:15 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	1.8	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	1.2	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	1.4	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	2.1	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
108-67-8	**1,3,5-Trimethylbenzene**	**40**		ug/m³	1.5	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
106-99-0	1,3-Butadiene	ND	TO-CCV, TO-LCS-L	ug/m³	2.0	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	1.8	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	1.4	2.966	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 19:33	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	1.8	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
123-91-1	1,4-Dioxane	ND		ug/m³	2.1	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
78-93-3	**2-Butanone**	**2.6**		ug/m³	0.87	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
591-78-6	* 2-Hexanone	ND		ug/m³	2.4	2.966	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 19:33	VH
107-05-1	3-Chloropropene	ND		ug/m³	4.6	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	1.2	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
67-64-1	**Acetone**	**54**		ug/m³	1.4	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
107-13-1	Acrylonitrile	ND		ug/m³	0.64	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
71-43-2	Benzene	ND		ug/m³	0.95	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
100-44-7	Benzyl chloride	ND		ug/m³	1.5	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-27-4	Bromodichloromethane	ND		ug/m³	2.0	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-25-2	Bromoform	ND	TO-LCS-L	ug/m³	3.1	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
74-83-9	Bromomethane	ND		ug/m³	1.2	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-15-0	**Carbon disulfide**	**9.6**		ug/m³	0.92	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH

Sample Information

Client Sample ID: 23SV6 **York Sample ID:** 23K1901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 10:15 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/m³	0.47	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
108-90-7	Chlorobenzene	ND		ug/m³	1.4	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-00-3	Chloroethane	ND		ug/m³	0.78	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
67-66-3	Chloroform	ND		ug/m³	1.4	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
74-87-3	Chloromethane	ND	TO-CCV, TO-LCS-L	ug/m³	0.61	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.29	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	1.3	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
110-82-7	**Cyclohexane**	**92**		ug/m³	1.0	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
124-48-1	Dibromochloromethane	ND		ug/m³	2.5	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-71-8	**Dichlorodifluoromethane**	**2.2**		ug/m³	1.5	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
141-78-6	* Ethyl acetate	ND		ug/m³	2.1	2.966	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 19:33	VH
100-41-4	**Ethyl Benzene**	**54**		ug/m³	1.3	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
87-68-3	Hexachlorobutadiene	ND	TO-LCS-L	ug/m³	3.2	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
67-63-0	**Isopropanol**	**1.7**		ug/m³	1.5	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
80-62-6	Methyl Methacrylate	ND		ug/m³	1.2	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	1.1	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-09-2	Methylene chloride	ND		ug/m³	2.1	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
142-82-5	**n-Heptane**	**340**		ug/m³	1.2	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
110-54-3	**n-Hexane**	**170**		ug/m³	1.0	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
95-47-6	**o-Xylene**	**21**		ug/m³	1.3	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
179601-23-1	**p- & m- Xylenes**	**52**		ug/m³	2.6	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
622-96-8	*** p-Ethyltoluene**	**42**		ug/m³	1.5	2.966	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 19:33	VH

Sample Information

Client Sample ID: 23SV6 **York Sample ID:** 23K1901-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Soil Vapor	November 29, 2023 10:15 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
115-07-1	* Propylene	ND		ug/m³	0.51	2.966	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 19:33	VH
100-42-5	Styrene	ND		ug/m³	1.3	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
127-18-4	**Tetrachloroethylene**	**17**		ug/m³	2.0	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
109-99-9	* Tetrahydrofuran	ND		ug/m³	1.7	2.966	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 19:33	VH
108-88-3	**Toluene**	**16**		ug/m³	1.1	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	1.2	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	1.3	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.40	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	1.7	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
108-05-4	Vinyl acetate	ND		ug/m³	1.0	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
593-60-2	Vinyl bromide	ND		ug/m³	1.3	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH
75-01-4	Vinyl Chloride	ND	TO-CCV, TO-LCS-L	ug/m³	0.38	2.966	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 19:33	VH

Sample Information

Client Sample ID: OA-1 **York Sample ID:** 23K1901-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Outdoor Ambient Air	November 29, 2023 9:10 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.53	0.772	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 21:16	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.42	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.53	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH

Sample Information

Client Sample ID: **OA-1** **York Sample ID:** **23K1901-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Outdoor Ambient Air	November 29, 2023 9:10 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: **TO-VAC**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.59	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.42	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.31	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.077	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
120-82-1	1,2,4-Trichlorobenzene	ND	ICVE, TO-LCS -L	ug/m³	0.57	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.38	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.59	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.46	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.31	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.36	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.54	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.38	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
106-99-0	1,3-Butadiene	ND	TO-CCV, TO-LCS -L	ug/m³	0.51	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.46	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.36	0.772	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 21:16	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.46	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
123-91-1	1,4-Dioxane	ND		ug/m³	0.56	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
78-93-3	**2-Butanone**	**0.25**		ug/m³	0.23	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.63	0.772	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 21:16	VH
107-05-1	3-Chloropropene	ND		ug/m³	1.2	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.32	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
67-64-1	**Acetone**	**2.1**		ug/m³	0.37	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH

Sample Information

Client Sample ID: **OA-1** **York Sample ID:** **23K1901-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Outdoor Ambient Air	November 29, 2023 9:10 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	**Acrylonitrile**	**0.35**	B	ug/m³	0.17	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
71-43-2	**Benzene**	**0.39**		ug/m³	0.25	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
100-44-7	Benzyl chloride	ND		ug/m³	0.40	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-27-4	Bromodichloromethane	ND		ug/m³	0.52	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-25-2	Bromoform	ND	TO-LCS-L	ug/m³	0.80	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
74-83-9	Bromomethane	ND		ug/m³	0.30	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-15-0	Carbon disulfide	ND		ug/m³	0.24	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
56-23-5	**Carbon tetrachloride**	**0.24**		ug/m³	0.12	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
108-90-7	Chlorobenzene	ND		ug/m³	0.36	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-00-3	Chloroethane	ND		ug/m³	0.20	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
67-66-3	Chloroform	ND		ug/m³	0.38	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
74-87-3	**Chloromethane**	**0.32**	TO-LCS-L, TO-CCV	ug/m³	0.16	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.077	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.35	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
110-82-7	Cyclohexane	ND		ug/m³	0.27	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
124-48-1	Dibromochloromethane	ND		ug/m³	0.66	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-71-8	**Dichlorodifluoromethane**	**1.2**		ug/m³	0.38	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
141-78-6	* Ethyl acetate	ND		ug/m³	0.56	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.34	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
87-68-3	Hexachlorobutadiene	ND	TO-LCS-L	ug/m³	0.82	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
67-63-0	**Isopropanol**	**0.91**		ug/m³	0.38	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.32	0.772	EPA TO-15	12/05/2023 09:00	12/05/2023 21:16	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: OA-1 **York Sample ID:** 23K1901-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23K1901	220293 100 E.149th St. Bronx, NY	Outdoor Ambient Air	November 29, 2023 9:10 am	11/30/2023

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes: TO-VAC

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.28	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
75-09-2	Methylene chloride	ND		ug/m³	0.54	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
142-82-5	**n-Heptane**	**0.57**		ug/m³	0.32	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
110-54-3	**n-Hexane**	**0.44**		ug/m³	0.27	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
95-47-6	o-Xylene	ND		ug/m³	0.34	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
179601-23-1	**p- & m- Xylenes**	**0.74**		ug/m³	0.67	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.38	0.772	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 21:16	VH
115-07-1	* Propylene	ND		ug/m³	0.13	0.772	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 21:16	VH
100-42-5	Styrene	ND		ug/m³	0.33	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
127-18-4	Tetrachloroethylene	ND		ug/m³	0.52	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.46	0.772	EPA TO-15 Certifications:	12/05/2023 09:00	12/05/2023 21:16	VH
108-88-3	**Toluene**	**0.55**		ug/m³	0.29	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.31	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.35	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
79-01-6	Trichloroethylene	ND		ug/m³	0.10	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
75-69-4	**Trichlorofluoromethane (Freon 11)**	**0.69**		ug/m³	0.43	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
108-05-4	Vinyl acetate	ND		ug/m³	0.27	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
593-60-2	Vinyl bromide	ND		ug/m³	0.34	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH
75-01-4	Vinyl Chloride	ND	TO-CCV, TO-LCS-L	ug/m³	0.099	0.772	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	12/05/2023 09:00	12/05/2023 21:16	VH

Analytical Batch Summary

Batch ID: BL30340 **Preparation Method:** EPA TO15 PREP **Prepared By:** VH

YORK Sample ID	Client Sample ID	Preparation Date
23K1901-01	23SV1	12/05/23
23K1901-02	23SV2	12/05/23
23K1901-03	23SV3	12/05/23
23K1901-04	23SV4	12/05/23
23K1901-05	23SV5	12/05/23
23K1901-06	23SV6	12/05/23
23K1901-07	OA-1	12/05/23
BL30340-BLK1	Blank	12/05/23
BL30340-BS1	LCS	12/05/23

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30340 - EPA TO15 PREP											
Blank (BL30340-BLK1)											Prepared & Analyzed: 12/05/2023
1,1,1,2-Tetrachloroethane	ND	0.69	ug/m³								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.099	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	0.43	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.099	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30340 - EPA TO15 PREP											
Blank (BL30340-BLK1)								Prepared & Analyzed: 12/05/2023			
n-Heptane	ND	0.41	ug/m³								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.68	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.13	"								
LCS (BL30340-BS1)								Prepared & Analyzed: 12/05/2023			
1,1,1,2-Tetrachloroethane	9.94		ppbv	10.0		99.4	70-130				
1,1,1-Trichloroethane	10.2		"	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	9.53		"	10.0		95.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.87		"	10.0		98.7	70-130				
1,1,2-Trichloroethane	9.82		"	10.0		98.2	70-130				
1,1-Dichloroethane	9.35		"	10.0		93.5	70-130				
1,1-Dichloroethylene	10.0		"	10.0		100	70-130				
1,2,4-Trichlorobenzene	6.80		"	10.0		68.0	70-130	Low Bias			
1,2,4-Trimethylbenzene	10.3		"	10.0		103	70-130				
1,2-Dibromoethane	9.95		"	10.0		99.5	70-130				
1,2-Dichlorobenzene	10.3		"	10.0		103	70-130				
1,2-Dichloroethane	9.37		"	10.0		93.7	70-130				
1,2-Dichloropropane	9.46		"	10.0		94.6	70-130				
1,2-Dichlorotetrafluoroethane	7.14		"	10.0		71.4	70-130				
1,3,5-Trimethylbenzene	9.98		"	10.0		99.8	70-130				
1,3-Butadiene	4.13		"	10.0		41.3	70-130	Low Bias			
1,3-Dichlorobenzene	8.53		"	10.0		85.3	70-130				
1,3-Dichloropropane	9.61		"	10.0		96.1	70-130				
1,4-Dichlorobenzene	8.34		"	10.0		83.4	70-130				
1,4-Dioxane	9.28		"	10.0		92.8	70-130				
2-Butanone	9.27		"	10.0		92.7	70-130				
2-Hexanone	9.11		"	10.0		91.1	70-130				
3-Chloropropene	10.5		"	10.0		105	70-130				
4-Methyl-2-pentanone	9.30		"	10.0		93.0	70-130				
Acetone	9.15		"	10.0		91.5	70-130				
Acrylonitrile	9.80		"	10.0		98.0	70-130				
Benzene	10.1		"	10.0		101	70-130				
Benzyl chloride	8.95		"	10.0		89.5	70-130				
Bromodichloromethane	9.49		"	10.0		94.9	70-130				
Bromoform	5.30		"	10.0		53.0	70-130	Low Bias			
Bromomethane	10.1		"	10.0		101	70-130				
Carbon disulfide	9.75		"	10.0		97.5	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BL30340 - EPA TO15 PREP											
LCS (BL30340-BS1)								Prepared & Analyzed: 12/05/2023			
Carbon tetrachloride	11.0		ppbv	10.0		110	70-130				
Chlorobenzene	9.55		"	10.0		95.5	70-130				
Chloroethane	11.7		"	10.0		117	70-130				
Chloroform	9.75		"	10.0		97.5	70-130				
Chloromethane	5.11		"	10.0		51.1	70-130	Low Bias			
cis-1,2-Dichloroethylene	10.0		"	10.0		100	70-130				
cis-1,3-Dichloropropylene	10.5		"	10.0		105	70-130				
Cyclohexane	10.6		"	10.0		106	70-130				
Dibromochloromethane	8.68		"	10.0		86.8	70-130				
Dichlorodifluoromethane	8.91		"	10.0		89.1	70-130				
Ethyl acetate	9.50		"	10.0		95.0	70-130				
Ethyl Benzene	9.94		"	10.0		99.4	70-130				
Hexachlorobutadiene	6.30		"	10.0		63.0	70-130	Low Bias			
Isopropanol	9.01		"	10.0		90.1	70-130				
Methyl Methacrylate	9.91		"	10.0		99.1	70-130				
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	70-130				
Methylene chloride	9.41		"	10.0		94.1	70-130				
n-Heptane	10.4		"	10.0		104	70-130				
n-Hexane	10.2		"	10.0		102	70-130				
o-Xylene	10.0		"	10.0		100	70-130				
p- & m- Xylenes	19.8		"	20.0		98.8	70-130				
p-Ethyltoluene	10.6		"	10.0		106	70-130				
Propylene	9.07		"	10.0		90.7	70-130				
Styrene	10.7		"	10.0		107	70-130				
Tetrachloroethylene	9.83		"	10.0		98.3	70-130				
Tetrahydrofuran	9.81		"	10.0		98.1	70-130				
Toluene	9.40		"	10.0		94.0	70-130				
trans-1,2-Dichloroethylene	9.93		"	10.0		99.3	70-130				
trans-1,3-Dichloropropylene	10.2		"	10.0		102	70-130				
Trichloroethylene	9.85		"	10.0		98.5	70-130				
Trichlorofluoromethane (Freon 11)	9.62		"	10.0		96.2	70-130				
Vinyl acetate	8.66		"	10.0		86.6	70-130				
Vinyl bromide	10.3		"	10.0		103	70-130				
Vinyl Chloride	4.43		"	10.0		44.3	70-130	Low Bias			

Sample and Data Qualifiers Relating to This Work Order

TO-VAC	The final vacuum in the canister was less than -2 inches Hg vacuum. The time integrated sampling may be affected and not reflect proper sampling over the time period. The data user should take note.
TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23K1901

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number: 220293

YOUR Project Name: 100 E. 149th. St. The Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- Standard (5-7 Day) ✓

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below) First Name

Air Matrix Codes

- AI - Indoor Ambient Air
- AO - Outdoor Amb. Air
- AE - Vapor Extraction Well/ Process Gas/Effluent
- AS - Soil Vapor/Sub-Slab

Samples From

- New York ✓
- New Jersey
- Connecticut
- Pennsylvania
- Other

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual ___

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
23SV1	11/29/23 9:00	AS	-30	-4	37003	19416	TO-15
23SV2	8:20		-30	-4	43008	19382	
23SV3	9:30		-30	-3	28302	19400	
23SV4	9:50		-30	-2	23797	19419	
23SV5	8:45		-30	-4	37420	19417	
23SV6	10:15		-30	-4	43003	19430	
23SV7 DUP-1	9:10	AO	-30	-2	36998	19396	

Comments:

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___

Routine Survey ___ Other ___

Sampling Media

- 6 Liter Canister ✓
- Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
			11/30/23 1205		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
					11/30/23 1528

Technical Report

prepared for:

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Report Date: 01/23/2024
Client Project ID: 100 East 149th Street
York Project (SDG) No.: 24A0923

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 01/23/2024
Client Project ID: 100 East 149th Street
York Project (SDG) No.: 24A0923

Touchstone Environmental Geology, PC
1919 Middle Country Road Suite 205
Centereach NY, 11720
Attention: Rachel Ataman

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 16, 2024 and listed below. The project was identified as your project: **100 East 149th Street**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24A0923-01	23MW-1	Ground Water	01/12/2024	01/16/2024
24A0923-02	23MW-2	Ground Water	01/12/2024	01/16/2024
24A0923-03	23MW-3	Ground Water	01/12/2024	01/16/2024
24A0923-04	23MW-4	Ground Water	01/12/2024	01/16/2024
24A0923-05	23MW-5	Ground Water	01/12/2024	01/16/2024
24A0923-06	23MW-6	Ground Water	01/12/2024	01/16/2024
24A0923-07	23MW-7	Ground Water	01/12/2024	01/16/2024
24A0923-08	23MW-8	Ground Water	01/12/2024	01/16/2024
24A0923-09	23MW-9	Ground Water	01/12/2024	01/16/2024
24A0923-10	23MW-10	Ground Water	01/12/2024	01/16/2024
24A0923-11	FB	Ground Water	01/12/2024	01/16/2024

General Notes for York Project (SDG) No.: 24A0923

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:

Date: 01/23/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: 23MW-1 **York Sample ID:** 24A0923-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:15 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**2.48**		ng/L	0.463	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**3.80**		ng/L	0.345	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**2.58**		ng/L	0.700	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.670	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**3.58**		ng/L	0.414	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**31.7**		ng/L	0.808	1.83	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.62**	J	ng/L	0.513	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
335-76-2	**Perfluorodecanoic acid (PFDA)**	**0.979**	J	ng/L	0.739	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.11	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.868	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.730	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.680	1.97	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.779	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.02	1.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**4.07**		ng/L	0.227	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.868	1.97	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.897	1.88	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.30	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.05	7.49	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ

Sample Information

Client Sample ID: 23MW-1 **York Sample ID:** 24A0923-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:15 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.02	7.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.325	7.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.493	3.51	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:19	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.11	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:19	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS -L	ng/L	0.246	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:19	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.365	3.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:19	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.749	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.76	7.39	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.18	7.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.36	7.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.690	7.37	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
919005-14-4	ADONA	ND		ng/L	0.523	7.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS -L	ng/L	0.917	1.91	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.848	1.89	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:19	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.00	4.93	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.23	24.6	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.34	24.6	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.93	19.7	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.56	1.97	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ

Sample Information

Client Sample ID: 23MW-1 **York Sample ID:** 24A0923-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:15 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.93	19.7	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.77	1.97	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:19	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*124 %*		*25-150*
Surrogate: M5PFHxA	*144 %*		*25-150*
Surrogate: M4PFHpA	*115 %*		*25-150*
Surrogate: M3PFHxS	*130 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*123 %*		*25-150*
Surrogate: M6PFDA	*128 %*		*25-150*
Surrogate: M7PFUdA	*123 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*101 %*		*25-150*
Surrogate: M2PFTeDA	*51.1 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.21 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*145 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*58.0 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*123 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*107 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*109 %*		*25-150*
Surrogate: M2-6:2 FTS	*233 %*	PFSu-H	*25-200*
Surrogate: M2-8:2 FTS	*173 %*		*25-200*
Surrogate: M9PFNA	*136 %*		*25-150*
Surrogate: M2-4:2 FTS	*291 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*65.2 %*		*25-150*
Surrogate: d-N-EtFOSA	*68.4 %*		*25-150*
Surrogate: M3HFPO-DA	*132 %*		*25-150*
Surrogate: d9-N-EtFOSE	*47.6 %*		*25-150*
Surrogate: d7-N-MeFOSE	*64.7 %*		*25-150*

Sample Information

Client Sample ID: 23MW-2 **York Sample ID:** 24A0923-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:45 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.468	1.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**22.5**		ng/L	0.348	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**12.2**		ng/L	0.707	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.83**		ng/L	0.677	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**13.0**		ng/L	0.418	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**13.0**		ng/L	0.816	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.18**	J	ng/L	0.518	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.747	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.876	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.737	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.687	1.99	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.787	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	1.99	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**33.4**		ng/L	0.229	3.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.876	1.99	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.906	1.90	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.31	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.06	7.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.04	7.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ

Sample Information

Client Sample ID: 23MW-2 **York Sample ID:** 24A0923-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:45 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.329	7.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.498	3.54	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:35	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.13	3.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:35	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.249	3.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:35	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.368	3.98	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:35	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.757	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.78	7.47	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.22	7.97	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.37	7.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.697	7.45	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
919005-14-4	ADONA	ND		ng/L	0.528	7.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ng/L	0.926	1.93	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.856	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:35	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.02	4.98	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.30	24.9	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.43	24.9	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.97	19.9	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.57	1.99	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.97	19.9	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ

Sample Information

Client Sample ID: 23MW-2 **York Sample ID:** 24A0923-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:45 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.79	1.99	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:35	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*123 %*		*25-150*
Surrogate: M5PFHxA	*140 %*		*25-150*
Surrogate: M4PFHpA	*104 %*		*25-150*
Surrogate: M3PFHxS	*127 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*141 %*		*25-150*
Surrogate: M6PFDA	*118 %*		*25-150*
Surrogate: M7PFUdA	*102 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*107 %*		*25-150*
Surrogate: M2PFTeDA	*64.2 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.94 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*137 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*21.3 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*123 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*116 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*126 %*		*25-150*
Surrogate: M2-6:2 FTS	*189 %*		*25-200*
Surrogate: M2-8:2 FTS	*152 %*		*25-200*
Surrogate: M9PFNA	*134 %*		*25-150*
Surrogate: M2-4:2 FTS	*234 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*77.1 %*		*25-150*
Surrogate: d-N-EtFOSA	*72.1 %*		*25-150*
Surrogate: M3HFPO-DA	*136 %*		*25-150*
Surrogate: d9-N-EtFOSE	*53.3 %*		*25-150*
Surrogate: d7-N-MeFOSE	*73.4 %*		*25-150*

Sample Information

Client Sample ID: 23MW-3 **York Sample ID:** 24A0923-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:10 am	01/16/2024

Sample Information

Client Sample ID: 23MW-3 **York Sample ID:** 24A0923-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:10 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.16**		ng/L	0.472	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**8.00**		ng/L	0.351	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**4.16**		ng/L	0.713	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.65**	J	ng/L	0.683	1.84	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**11.1**		ng/L	0.422	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**15.3**		ng/L	0.823	1.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**2.00**	J	ng/L	0.522	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.753	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.13	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.883	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.743	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.693	2.01	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.793	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.03	2.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**9.24**		ng/L	0.231	4.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.883	2.01	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.914	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.33	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.06	7.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.06	7.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ

Sample Information

Client Sample ID: 23MW-3 **York Sample ID:** 24A0923-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:10 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.331	8.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.502	3.57	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:52	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.15	4.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:52	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.251	4.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:52	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.371	4.02	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 20:52	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.763	1.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.80	7.53	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.24	8.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.39	7.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.703	7.51	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
919005-14-4	ADONA	ND		ng/L	0.532	7.59	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ng/L	0.934	1.95	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.863	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 20:52	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.04	5.02	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.36	25.1	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.51	25.1	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	4.01	20.1	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.59	2.01	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	4.01	20.1	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ

Sample Information

Client Sample ID: **23MW-3** **York Sample ID:** **24A0923-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:10 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.81	2.01	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 20:52	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*115 %*		*25-150*
Surrogate: M5PFHxA	*137 %*		*25-150*
Surrogate: M4PFHpA	*113 %*		*25-150*
Surrogate: M3PFHxS	*123 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*134 %*		*25-150*
Surrogate: M6PFDA	*144 %*		*25-150*
Surrogate: M7PFUdA	*131 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*113 %*		*25-150*
Surrogate: M2PFTeDA	*79.2 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.68 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*128 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*140 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*113 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*107 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*115 %*		*25-150*
Surrogate: M2-6:2 FTS	*228 %*	PFSu-H	*25-200*
Surrogate: M2-8:2 FTS	*148 %*		*25-200*
Surrogate: M9PFNA	*124 %*		*25-150*
Surrogate: M2-4:2 FTS	*296 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*89.5 %*		*25-150*
Surrogate: d-N-EtFOSA	*67.5 %*		*25-150*
Surrogate: M3HFPO-DA	*137 %*		*25-150*
Surrogate: d9-N-EtFOSE	*52.4 %*		*25-150*
Surrogate: d7-N-MeFOSE	*70.4 %*		*25-150*

Sample Information

Client Sample ID: **23MW-4** **York Sample ID:** **24A0923-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:30 am	01/16/2024

Sample Information

Client Sample ID: 23MW-4 **York Sample ID:** 24A0923-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:30 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.478	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**4.34**		ng/L	0.356	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.722	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**0.785**	J	ng/L	0.692	1.86	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**8.49**		ng/L	0.427	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**5.37**		ng/L	0.834	1.89	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**0.868**	J	ng/L	0.529	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.763	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.15	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.895	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.753	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.702	2.03	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.803	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.05	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**5.56**		ng/L	0.234	4.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.895	2.03	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.926	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.34	1.96	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.08	7.73	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.08	7.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ

Sample Information

Client Sample ID: 23MW-4 **York Sample ID:** 24A0923-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:30 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**1300**		ng/L	0.336	8.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.509	3.62	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/23/2024 08:39	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.18	4.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/23/2024 08:39	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.254	4.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/23/2024 08:39	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.376	4.07	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/23/2024 08:39	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.773	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.82	7.63	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
13252-13-6	**HFPO-DA (Gen-X)**	**87.3**	PF-CC V-H	ng/L	3.29	8.14	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.40	7.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.712	7.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
919005-14-4	ADONA	ND		ng/L	0.539	7.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.946	1.97	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.875	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/23/2024 08:39	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.06	5.09	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.45	25.4	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.63	25.4	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	4.06	20.3	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.61	2.03	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	4.06	20.3	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ

Sample Information

Client Sample ID: 23MW-4 **York Sample ID:** 24A0923-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 10:30 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.83	2.03	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/23/2024 08:39	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*118 %*		*25-150*
Surrogate: M5PFHxA	*141 %*		*25-150*
Surrogate: M4PFHpA	*116 %*		*25-150*
Surrogate: M3PFHxS	*119 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*140 %*		*25-150*
Surrogate: M6PFDA	*121 %*		*25-150*
Surrogate: M7PFUdA	*88.5 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*76.3 %*		*25-150*
Surrogate: M2PFTeDA	*36.5 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.65 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*154 %*	PFSu-H	*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*61.4 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*131 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*108 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*105 %*		*25-150*
Surrogate: M2-6:2 FTS	*281 %*	PFSu-H	*25-200*
Surrogate: M2-8:2 FTS	*188 %*		*25-200*
Surrogate: M9PFNA	*100 %*		*25-150*
Surrogate: M2-4:2 FTS	*275 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*71.8 %*		*25-150*
Surrogate: d-N-EtFOSA	*89.0 %*		*25-150*
Surrogate: M3HFPO-DA	*132 %*		*25-150*
Surrogate: d9-N-EtFOSE	*44.9 %*		*25-150*
Surrogate: d7-N-MeFOSE	*54.6 %*		*25-150*

Sample Information

Client Sample ID: 23MW-5 **York Sample ID:** 24A0923-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:00 am	01/16/2024

Sample Information

Client Sample ID: 23MW-5 **York Sample ID:** 24A0923-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:00 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.436	1.64	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**6.97**		ng/L	0.324	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**4.68**		ng/L	0.658	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**0.796**	J	ng/L	0.630	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**6.90**		ng/L	0.389	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**14.5**		ng/L	0.760	1.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**3.78**		ng/L	0.482	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
335-76-2	**Perfluorodecanoic acid (PFDA)**	**2.16**		ng/L	0.695	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.05	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.816	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.686	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.640	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.732	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.955	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**7.26**		ng/L	0.213	3.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.816	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.843	1.77	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.22	1.79	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	0.983	7.04	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.90	7.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ

Sample Information

Client Sample ID: 23MW-5 **York Sample ID:** 24A0923-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:00 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**6.63**	J	ng/L	0.306	7.42	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.463	3.30	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:24	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	1.98	3.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:24	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.232	3.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:24	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.343	3.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:24	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.704	1.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.66	6.95	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	2.99	7.42	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.28	7.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.649	6.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
919005-14-4	ADONA	ND		ng/L	0.491	7.01	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ng/L	0.862	1.80	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.797	1.78	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:24	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.88	4.63	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	6.79	23.2	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	8.78	23.2	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.70	18.5	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.46	1.85	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.70	18.5	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ

Sample Information

Client Sample ID: 23MW-5 **York Sample ID:** 24A0923-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:00 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.67	1.85	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:24	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*62.4 %*		*25-150*
Surrogate: M5PFHxA	*68.4 %*		*25-150*
Surrogate: M4PFHpA	*46.2 %*		*25-150*
Surrogate: M3PFHxS	*65.5 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*64.3 %*		*25-150*
Surrogate: M6PFDA	*59.9 %*		*25-150*
Surrogate: M7PFUdA	*47.0 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*38.3 %*		*25-150*
Surrogate: M2PFTeDA	*13.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*9.09 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*74.5 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*69.2 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*54.0 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*56.9 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*51.9 %*		*25-150*
Surrogate: M2-6:2 FTS	*134 %*		*25-200*
Surrogate: M2-8:2 FTS	*81.1 %*		*25-200*
Surrogate: M9PFNA	*67.6 %*		*25-150*
Surrogate: M2-4:2 FTS	*160 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*23.3 %*	PFSu-L	*25-150*
Surrogate: d-N-EtFOSA	*20.7 %*	PFSu-L	*25-150*
Surrogate: M3HFPO-DA	*60.5 %*		*25-150*
Surrogate: d9-N-EtFOSE	*13.5 %*	PFSu-L	*25-150*
Surrogate: d7-N-MeFOSE	*23.6 %*	PFSu-L	*25-150*

Sample Information

Client Sample ID: 23MW-6 **York Sample ID:** 24A0923-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:20 am	01/16/2024

Sample Information

Client Sample ID: 23MW-6 **York Sample ID:** 24A0923-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:20 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**4.48**		ng/L	0.482	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**13.2**		ng/L	0.359	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**8.66**		ng/L	0.728	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.99**		ng/L	0.697	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**11.9**		ng/L	0.431	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**1.04**	J	ng/L	0.841	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.03**	J	ng/L	0.533	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.769	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.16	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.902	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.759	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.707	2.05	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.810	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.06	2.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**14.4**		ng/L	0.236	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.902	2.05	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.933	1.96	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.35	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.09	7.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.10	7.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ

Sample Information

Client Sample ID: 23MW-6 **York Sample ID:** 24A0923-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:20 am	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**460**		ng/L	0.338	8.20	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.513	3.65	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:40	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.19	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:40	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND	PF-LCS-L	ng/L	0.256	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:40	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.379	4.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 21:40	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.779	1.93	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.84	7.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.31	8.20	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.41	7.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.718	7.67	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
919005-14-4	ADONA	ND		ng/L	0.543	7.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND	PF-LCS-L	ng/L	0.954	1.99	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.882	1.97	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 21:40	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.08	5.13	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.52	25.6	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.71	25.6	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	4.09	20.5	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.62	2.05	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	4.09	20.5	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ

Sample Information

Client Sample ID: 23MW-6 **York Sample ID:** 24A0923-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:20 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.85	2.05	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 21:40	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*113 %*		*25-150*
Surrogate: M5PFHxA	*140 %*		*25-150*
Surrogate: M4PFHpA	*104 %*		*25-150*
Surrogate: M3PFHxS	*121 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*139 %*		*25-150*
Surrogate: M6PFDA	*122 %*		*25-150*
Surrogate: M7PFUdA	*105 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*88.2 %*		*25-150*
Surrogate: M2PFTeDA	*55.5 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*5.67 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*144 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*108 %*		*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*123 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*110 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*114 %*		*25-150*
Surrogate: M2-6:2 FTS	*288 %*	PFSu-H	*25-200*
Surrogate: M2-8:2 FTS	*188 %*		*25-200*
Surrogate: M9PFNA	*130 %*		*25-150*
Surrogate: M2-4:2 FTS	*297 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*77.5 %*		*25-150*
Surrogate: d-N-EtFOSA	*73.0 %*		*25-150*
Surrogate: M3HFPO-DA	*139 %*		*25-150*
Surrogate: d9-N-EtFOSE	*48.6 %*		*25-150*
Surrogate: d7-N-MeFOSE	*70.9 %*		*25-150*

Sample Information

Client Sample ID: 23MW-7 **York Sample ID:** 24A0923-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:45 am	01/16/2024

Sample Information

Client Sample ID: 23MW-7 **York Sample ID:** 24A0923-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:45 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**3.79**		ng/L	0.449	1.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**7.33**		ng/L	0.334	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**13.9**		ng/L	0.678	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.72**	J	ng/L	0.650	1.75	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**22.4**		ng/L	0.401	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**6.90**		ng/L	0.783	1.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**2.68**		ng/L	0.497	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.716	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.08	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.841	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.707	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.659	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.755	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.984	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**7.34**		ng/L	0.220	3.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.841	1.91	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.869	1.82	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.26	1.84	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.01	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.96	7.34	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ

Sample Information

Client Sample ID: 23MW-7 **York Sample ID:** 24A0923-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:45 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**14.5**		ng/L	0.315	7.64	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.478	3.40	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 22:45	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.04	3.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 22:45	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.239	3.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 22:45	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.353	3.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 22:45	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.726	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.71	7.16	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.09	7.64	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.32	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.669	7.15	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
919005-14-4	**ADONA**	**0.561**	J	ng/L	0.506	7.22	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.888	1.85	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.822	1.83	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 22:45	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.94	4.78	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.00	23.9	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.05	23.9	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.81	19.1	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.51	1.91	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.81	19.1	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ

Sample Information

Client Sample ID: 23MW-7 **York Sample ID:** 24A0923-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 11:45 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.72	1.91	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 22:45	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*129 %*		*25-150*
Surrogate: M5PFHxA	*136 %*		*25-150*
Surrogate: M4PFHpA	*98.9 %*		*25-150*
Surrogate: M3PFHxS	*124 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*138 %*		*25-150*
Surrogate: M6PFDA	*137 %*		*25-150*
Surrogate: M7PFUdA	*113 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*115 %*		*25-150*
Surrogate: M2PFTeDA	*58.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*4.43 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*149 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*164 %*	PFSu-H	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*134 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*122 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*135 %*		*25-150*
Surrogate: M2-6:2 FTS	*348 %*	PFSu-H	*25-200*
Surrogate: M2-8:2 FTS	*267 %*	PFSu-H	*25-200*
Surrogate: M9PFNA	*116 %*		*25-150*
Surrogate: M2-4:2 FTS	*327 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*79.7 %*		*25-150*
Surrogate: d-N-EtFOSA	*78.0 %*		*25-150*
Surrogate: M3HFPO-DA	*148 %*		*25-150*
Surrogate: d9-N-EtFOSE	*51.2 %*		*25-150*
Surrogate: d7-N-MeFOSE	*65.2 %*		*25-150*

Sample Information

Client Sample ID: 23MW-8 **York Sample ID:** 24A0923-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:00 pm	01/16/2024

Sample Information

Client Sample ID: 23MW-8 **York Sample ID:** 24A0923-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:00 pm	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**5.88**		ng/L	0.452	1.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**4.81**		ng/L	0.337	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**4.46**		ng/L	0.683	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**2.29**		ng/L	0.654	1.76	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**12.3**		ng/L	0.404	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**17.0**		ng/L	0.788	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**2.74**		ng/L	0.500	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.721	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.09	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.846	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.712	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.663	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.760	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.990	1.92	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
2706-90-3	**Perfluoropentanoic acid (PFPeA)**	**5.59**		ng/L	0.221	3.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.846	1.92	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.875	1.84	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.27	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.02	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.97	7.38	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ

Sample Information

Client Sample ID: 23MW-8 **York Sample ID:** 24A0923-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:00 pm	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.317	7.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.481	3.42	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:01	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.06	3.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:01	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.240	3.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:01	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.356	3.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:01	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.731	1.81	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.72	7.21	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.11	7.69	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.33	7.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.673	7.19	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
919005-14-4	ADONA	ND		ng/L	0.510	7.27	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.894	1.87	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.827	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:01	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.95	4.81	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.05	24.0	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.11	24.0	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.84	19.2	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.52	1.92	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	3.84	19.2	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ

Sample Information

Client Sample ID: 23MW-8 **York Sample ID:** 24A0923-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:00 pm	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.73	1.92	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:01	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*104 %*		*25-150*
Surrogate: M5PFHxA	*121 %*		*25-150*
Surrogate: M4PFHpA	*103 %*		*25-150*
Surrogate: M3PFHxS	*121 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*124 %*		*25-150*
Surrogate: M6PFDA	*115 %*		*25-150*
Surrogate: M7PFUdA	*96.8 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*85.8 %*		*25-150*
Surrogate: M2PFTeDA	*47.2 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*2.14 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*132 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*16.0 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*116 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*94.1 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*94.1 %*		*25-150*
Surrogate: M2-6:2 FTS	*281 %*	PFSu-H	*25-200*
Surrogate: M2-8:2 FTS	*165 %*		*25-200*
Surrogate: M9PFNA	*103 %*		*25-150*
Surrogate: M2-4:2 FTS	*271 %*	PFSu-H	*25-150*
Surrogate: d-N-MeFOSA	*69.9 %*		*25-150*
Surrogate: d-N-EtFOSA	*58.8 %*		*25-150*
Surrogate: M3HFPO-DA	*113 %*		*25-150*
Surrogate: d9-N-EtFOSE	*41.9 %*		*25-150*
Surrogate: d7-N-MeFOSE	*54.8 %*		*25-150*

Sample Information

Client Sample ID: 23MW-9 **York Sample ID:** 24A0923-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:20 pm	01/16/2024

Sample Information

Client Sample ID: 23MW-9 **York Sample ID:** 24A0923-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:20 pm	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	**Perfluorobutanesulfonic acid (PFBS)**	**6.86**		ng/L	0.476	1.79	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**8.89**		ng/L	0.355	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**3.55**		ng/L	0.719	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.93**		ng/L	0.689	1.85	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**5.14**		ng/L	0.425	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**10.3**		ng/L	0.831	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.09**	J	ng/L	0.527	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.760	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.14	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.891	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.750	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.699	2.03	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.800	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.04	2.03	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.233	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.891	2.03	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.922	1.93	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.34	1.95	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.07	7.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.08	7.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ

Sample Information

Client Sample ID: 23MW-9 **York Sample ID:** 24A0923-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:20 pm	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.334	8.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.506	3.61	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:17	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.17	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:17	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.253	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:17	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.375	4.05	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:17	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.770	1.90	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.81	7.60	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.27	8.10	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.40	7.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.709	7.58	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
919005-14-4	**ADONA**	**0.625**	J	ng/L	0.537	7.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.942	1.96	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.871	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:17	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.06	5.06	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.42	25.3	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.59	25.3	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	4.04	20.3	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.60	2.03	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	4.04	20.3	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ

Sample Information

Client Sample ID: 23MW-9 **York Sample ID:** 24A0923-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:20 pm	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.82	2.03	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:17	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*13.6 %*	PFSu-L	*25-150*
Surrogate: M5PFHxA	*14.8 %*	PFSu-L	*25-150*
Surrogate: M4PFHpA	*32.6 %*		*25-150*
Surrogate: M3PFHxS	*61.8 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*54.6 %*		*25-150*
Surrogate: M6PFDA	*89.6 %*		*25-150*
Surrogate: M7PFUdA	*92.4 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*98.5 %*		*25-150*
Surrogate: M2PFTeDA	*63.0 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.23 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*107 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*1.92 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*90.9 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*87.3 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*97.5 %*		*25-150*
Surrogate: M2-6:2 FTS	*87.6 %*		*25-200*
Surrogate: M2-8:2 FTS	*103 %*		*25-200*
Surrogate: M9PFNA	*61.1 %*		*25-150*
Surrogate: M2-4:2 FTS	*27.2 %*		*25-150*
Surrogate: d-N-MeFOSA	*72.1 %*		*25-150*
Surrogate: d-N-EtFOSA	*64.0 %*		*25-150*
Surrogate: M3HFPO-DA	*11.5 %*	PFSu-L	*25-150*
Surrogate: d9-N-EtFOSE	*44.7 %*		*25-150*
Surrogate: d7-N-MeFOSE	*62.2 %*		*25-150*

Sample Information

Client Sample ID: 23MW-10 **York Sample ID:** 24A0923-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:50 pm	01/16/2024

Sample Information

Client Sample ID: 23MW-10 **York Sample ID:** 24A0923-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:50 pm	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.484	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
307-24-4	**Perfluorohexanoic acid (PFHxA)**	**6.89**		ng/L	0.360	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
375-85-9	**Perfluoroheptanoic acid (PFHpA)**	**4.63**		ng/L	0.731	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
355-46-4	**Perfluorohexanesulfonic acid (PFHxS)**	**1.41**	J	ng/L	0.700	1.88	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
335-67-1	**Perfluorooctanoic acid (PFOA)**	**9.30**		ng/L	0.432	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
1763-23-1	**Perfluorooctanesulfonic acid (PFOS)**	**12.4**		ng/L	0.844	1.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
375-95-1	**Perfluorononanoic acid (PFNA)**	**1.38**	J	ng/L	0.535	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.772	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.16	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.906	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.762	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.710	2.06	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.813	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	1.06	2.06	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.237	4.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.906	2.06	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.937	1.97	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.36	1.99	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.09	7.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	2.11	7.91	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ

Sample Information

Client Sample ID: 23MW-10 **York Sample ID:** 24A0923-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:50 pm	01/16/2024

PFAS, EPA 1633 Target List **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-22-4	**Perfluoro-n-butanoic acid (PFBA)**	**683**		ng/L	0.340	8.24	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.515	3.66	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:33	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.20	4.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:33	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.257	4.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:33	ESJ
863090-89-5	**Perfluoro-5-oxahexanoic acid (PFMBA)**	**0.564**	J	ng/L	0.381	4.12	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:33	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.782	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.84	7.72	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.33	8.24	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.42	7.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.721	7.70	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
919005-14-4	ADONA	ND		ng/L	0.546	7.78	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.957	2.00	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.885	1.98	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:33	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	2.09	5.15	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.55	25.7	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.75	25.7	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	4.11	20.6	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.63	2.06	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ
1691-99-2	* N-EtFOSE	ND		ng/L	4.11	20.6	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ

Sample Information

Client Sample ID: 23MW-10 **York Sample ID:** 24A0923-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 12:50 pm	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4151-50-2	* N-EtFOSA	ND		ng/L	1.85	2.06	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:33	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*48.7 %*		*25-150*
Surrogate: M5PFHxA	*52.6 %*		*25-150*
Surrogate: M4PFHpA	*68.0 %*		*25-150*
Surrogate: M3PFHxS	*104 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*100 %*		*25-150*
Surrogate: M6PFDA	*119 %*		*25-150*
Surrogate: M7PFUdA	*110 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*96.1 %*		*25-150*
Surrogate: M2PFTeDA	*65.7 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*1.72 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*129 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*3.38 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*101 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*87.9 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*85.0 %*		*25-150*
Surrogate: M2-6:2 FTS	*139 %*		*25-200*
Surrogate: M2-8:2 FTS	*118 %*		*25-200*
Surrogate: M9PFNA	*117 %*		*25-150*
Surrogate: M2-4:2 FTS	*89.3 %*		*25-150*
Surrogate: d-N-MeFOSA	*72.8 %*		*25-150*
Surrogate: d-N-EtFOSA	*61.6 %*		*25-150*
Surrogate: M3HFPO-DA	*44.2 %*		*25-150*
Surrogate: d9-N-EtFOSE	*40.3 %*		*25-150*
Surrogate: d7-N-MeFOSE	*59.4 %*		*25-150*

Sample Information

Client Sample ID: FB **York Sample ID:** 24A0923-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:15 am	01/16/2024

Sample Information

Client Sample ID: FB

York Sample ID: 24A0923-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:15 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	0.455	1.71	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	0.339	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	0.687	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	0.658	1.77	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	0.406	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	0.793	1.80	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	0.503	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	0.726	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.09	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	0.851	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	0.716	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	0.668	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
2355-31-9	N-MeFOSAA	ND		ng/L	0.764	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
2991-50-6	N-EtFOSAA	ND		ng/L	0.997	1.94	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	0.223	3.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
754-91-6	* Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	0.851	1.94	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
375-92-8	* Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	0.880	1.85	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
335-77-3	* Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.28	1.87	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	1.03	7.35	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ

Sample Information

Client Sample ID: FB **York Sample ID:** 24A0923-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:15 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.98	7.43	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	0.319	7.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
113507-82-7	Perfluoro(2-ethoxyethane)sulfonic acid (PFEESA)	ND		ng/L	0.484	3.44	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:49	ESJ
151772-58-6	Perfluoro-3,6-dioxaheptanoic acid (NFDHA)	ND		ng/L	2.07	3.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:49	ESJ
377-73-1	Perfluoro-4-oxapentanoic acid (PFMPA)	ND		ng/L	0.242	3.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:49	ESJ
863090-89-5	Perfluoro-5-oxahexanoic acid (PFMBA)	ND		ng/L	0.358	3.87	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058	01/19/2024 14:51	01/19/2024 23:49	ESJ
2706-91-4	Perfluoro-1-pentanesulfonate (PFPeS)	ND		ng/L	0.735	1.82	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
757124-72-4	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	ND		ng/L	1.73	7.26	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
13252-13-6	HFPO-DA (Gen-X)	ND		ng/L	3.13	7.74	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
763051-92-9	11CL-PF3OUdS	ND		ng/L	1.34	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
756426-58-1	9CL-PF3ONS	ND		ng/L	0.677	7.24	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
919005-14-4	ADONA	ND		ng/L	0.513	7.31	1	EPA 1633 Draft 3 Certifications: NELAC-NY12058,NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
79780-39-5	* Perfluorododecanesulfonic acid (PFDoS)	ND		ng/L	0.900	1.88	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ
68259-12-1	* Perfluoro-1-nonanesulfonic acid (PFNS)	ND		ng/L	0.832	1.86	1	EPA 1633 Draft 3 Certifications: NJDEP-NY037	01/19/2024 14:51	01/19/2024 23:49	ESJ
356-02-5	* 3-Perfluoropropyl propanoic acid (FPrPA)	ND		ng/L	1.96	4.84	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ
914637-49-3	* 3-Perfluoropentyl propanoic acid (FPePA)	ND		ng/L	7.09	24.2	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ
812-70-4	* 3-Perfluoroheptyl propanoic acid (FHpPA)	ND		ng/L	9.16	24.2	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ
24448-09-7	* N-MeFOSE	ND		ng/L	3.86	19.4	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ
31506-32-8	* N-MeFOSA	ND		ng/L	1.53	1.94	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ

Sample Information

Client Sample ID: FB **York Sample ID:** 24A0923-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24A0923	100 East 149th Street	Ground Water	January 12, 2024 9:15 am	01/16/2024

PFAS, EPA 1633 Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 1633 Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1691-99-2	* N-EtFOSE	ND		ng/L	3.86	19.4	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ
4151-50-2	* N-EtFOSA	ND		ng/L	1.74	1.94	1	EPA 1633 Draft 3 Certifications:	01/19/2024 14:51	01/19/2024 23:49	ESJ

Surrogate Recoveries	Result		Acceptance Range
Surrogate: M3PFBS	*65.9 %*		*25-150*
Surrogate: M5PFHxA	*62.2 %*		*25-150*
Surrogate: M4PFHpA	*94.1 %*		*25-150*
Surrogate: M3PFHxS	*109 %*		*25-150*
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	*97.8 %*		*25-150*
Surrogate: M6PFDA	*110 %*		*25-150*
Surrogate: M7PFUdA	*110 %*		*25-150*
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	*109 %*		*25-150*
Surrogate: M2PFTeDA	*65.1 %*		*10-150*
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	*0.780 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	*122 %*		*25-150*
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	*2.55 %*	PFSu-L	*25-150*
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	*102 %*		*10-150*
Surrogate: d3-N-MeFOSAA	*88.8 %*		*25-150*
Surrogate: d5-N-EtFOSAA	*93.8 %*		*25-150*
Surrogate: M2-6:2 FTS	*110 %*		*25-200*
Surrogate: M2-8:2 FTS	*116 %*		*25-200*
Surrogate: M9PFNA	*109 %*		*25-150*
Surrogate: M2-4:2 FTS	*89.7 %*		*25-150*
Surrogate: d-N-MeFOSA	*85.2 %*		*25-150*
Surrogate: d-N-EtFOSA	*82.8 %*		*25-150*
Surrogate: M3HFPO-DA	*59.6 %*		*25-150*
Surrogate: d9-N-EtFOSE	*39.4 %*		*25-150*
Surrogate: d7-N-MeFOSE	*58.6 %*		*25-150*

Sample and Data Qualifiers Relating to This Work Order

PFSu-L	The isotopically labeled surrogate recovered below lab control limits due to a matrix effect. Isotope Dilution was applied.
PFSu-H	The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.
PF-LCS-L	The LCS recovery was slightly below acceptable limits for the qualified compound. However, sample results are not biased low because results are corrected for isotope recovery.
PF-CCV-H	The CCV recovery was slightly above acceptable limits for the qualified compound. However, sample results are not biased high because results are corrected for isotope recovery.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 24A0923

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | 56 Church Hill Rd. #2 Newtown, CT 06470 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: Touchstone	Company: Touchstone	Company: Touchstone
Address:	Address:	Address:
Phone.:	Phone.:	Phone.:
Contact:	Contact:	Contact:
E-mail:	E-mail:	E-mail:

YOUR Project Number:

YOUR Project Name: 100 East 149 St. The Bronx, NY

YOUR PO#:

Turn-Around Time

- RUSH - Next Day
- RUSH - Two Day
- RUSH - Three Day
- RUSH - Four Day
- RUSH - Five Day
- Standard (6-9 Day) X

PFAS Standard is 7-10 Days

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) Fyrat Hamon

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York ✓
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | EQuIS (Standard)
QA Report | CT RCP DQA/DUE | NYSDEC EQuIS
CMDP | NJDEP Reduced Deliverables | NJDKQP
Standard Excel EDD | NJDEP SRP HazSite
NY ASP B Package | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
23MW-1	GW	1/12/24 9:15	PFAS via 537 Modified	2 PFAS 500	ml.
~~23MW-2~~ 23MW-2		9:45			
23MW-3		10:10			
23MW-4		10:30			
23MW-5		11:00			
23MW-6		11:20			
23MW-7		11:45			
23MW-8		12:00			
23MW-9		12:20			
23MW-10		12:50			

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ____ MeOH ____ HNO3 ____ H2SO4 ____ NaOH ____
ZnAc ____ Ascorbic Acid ____ Other: ____

Special Instruction

Field Filtered
Lab to Filter

1. Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
	1/16/24 1500 PM	Kathyrk	1/16/24 1501 PM	KBalmyra	1/16/24 1630
2. Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
4. Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
					1/16/24 1630 1.4 Degrees C